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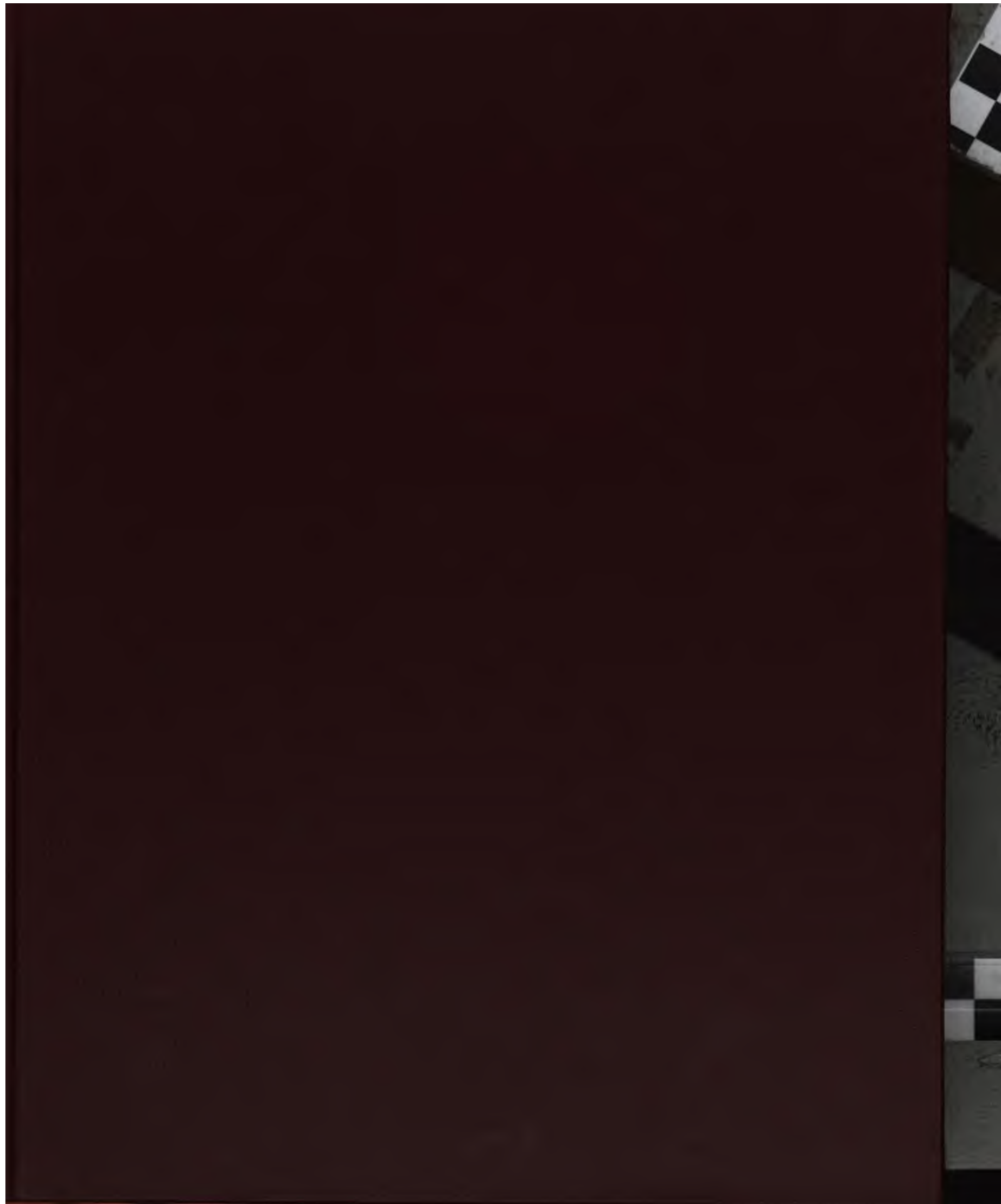
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# Natural History

IN TWO VOLUMES.



THE HISTORY OF THE UNITED STATES OF AMERICA

BY

JOHN F. BENTHUYSEN, LINCOLN.

AND

CHARLES VAN BENTHUYSEN, PRINTER.

1851.





N E W - Y O R K :

AN ACCOUNT OF THE CLASSIFICATION, COMPOSITION AND DISTRIBUTION  
OF THE SOILS AND ROCKS,  
AND THE NATURAL WATERS OF THE DIFFERENT GEOLOGICAL FORMATIONS;  
TOGETHER WITH A CONDENSED VIEW OF THE  
CLIMATE AND THE AGRICULTURAL PRODUCTIONS OF THE STATE.

BY EBENEZER EMMONS, M. D.

**VOLUME III.**

ALBANY:  
PRINTED BY C. VAN BENTHUYSEN.  
1851.

200877

200877

## PREFACE.

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THE five last years have witnessed a very great change in the system of fruit culture, as well as a great advance in the principles which lie at the foundation of Agriculture. This is seen in the call for agricultural periodicals and books. It is not now as formerly ; a scientific agricultural work, ten years ago, would be excluded from the fireside of the farmer, because it employed names and words difficult to be understood, or even to pronounce ; but now, we hear very little complaint on the score of hard names and technical phrases. Such works, too, were frequently regarded as theoretical, and as adapted only to a class of men styled book-farmers. It is now, however, conceded that books may teach the principles of Agriculture, and that the practical farmer may read and study them to great advantage. It will be seen that this volume is devoted partly to the description and illustration of the fruits of the State, and partly to the principles of practical agriculture. In the part devoted to fruits I have attempted to construct a better classification than we possessed. I do not know how it will be regarded by the learned in this branch of culture. The classification of varieties is always difficult, and when they are numerous, as in the apple and pear, it is increased. I may have failed in the application of the facts upon which my classification is based, for want of a full assortment of varieties ; still, I believe the attempt to improve the classification of fruits is in the right direction.

It is due to myself to state, that many of the plates were engraved before fruit culture had received its impulse in New-York ; and indeed a part of the work was printed before the best edition of Downing's work was published. Many difficulties and doubts have existed in the minds of some of our Pomologists, as it regarded the true name which had been given to many varieties. That I have fallen into error, in a few instances, is proba-

bly true. Most of the figures, however, will be found correct in outline and form. I am, however, dissatisfied with many, especially those which were printed at an early day; circumstances beyond my control have obliged me to give to the public some plates which are unworthy of a place in the volume. The fact is, both paper and printing are of that character that it was impossible to color the plates, handsomely: I inspected and corrected the proofs furnished me, and those were well executed; but it appears that the drawing upon the stone soon wore out, and hence bad impressions were often made, and which could not be converted afterwards, by colors, into handsome figures. I have also admitted varieties of apples which rank only as second rate: they are however good market apples. But there are other considerations than those of rank and value, which influenced me in publishing so many figures and plates. There is a philosophical interest in those products of organized matter, which multiply and run into varieties. What are the efficient and final causes by which, and for which these productions seem to increase in kinds so astonishingly? What cause is operative in the production of varieties? Is it original endowment, independent of climate; or is climate a cause which operates upon a susceptible constitution? I had in view, at one time, the exhibition of many varieties, with the view of contributing something for the illustration of these questions. I found, however, the questions beset with too many difficulties to be overcome, even in part, while engaged with the analyses of soils and vegetable products.

In conclusion, I feel bound to express a regret that this volume could not have been issued at an earlier day. The subject of which it mainly treats has gone far ahead in the last five years, and what in this volume might have been regarded as new, and which might, too, have aided the progress of pomology, will appear as less valuable, and of less importance. I may, however, commend to the attention of farmers the general principles of Agriculture which are expressed in the last part of the volume, together with the investigation of the milk of the cow. I can not but hope these facts will prove generally acceptable.

EBENEZER EMMONS.

ALBANY, December 6, 1851.

## LIST OF FRUITS AND PLATES.

The following List of Fruits and Plates will assist in making references, as well as a convenient Index to the varieties of Fruits which are figured in this volume.

### I. APPLES.

- |  |   |
|--|---|
| <p>Autumn Pearmain, plate 27, fig. 1.<br/> Autumn Strawberry, pl. 25, fig. 1.<br/> Baldwin, pl. 17, fig. 4.<br/> Bastard Seekno further, pl. 20: this last is a second rate apple, of a medium size; it is known under this name in Onondaga county, and is supposed to be a seedling.<br/> Belmont, pl. 76.<br/> Black Gillflower, pl. 24.<br/> Black Detroit, pl. 56.<br/> Blue Pearmain, pl. 54, fig. 1.<br/> Cheeseborough, pl. 20.<br/> Cooper's Redling, pl. 77.<br/> Cornish Gillflower, pl. 56.<br/> Curtis Sweeting: this is a very good seedling which originated in Onondaga county; it is a deep scarlet, and mostly destitute of stripes, pl. 20.<br/> Dodge, pl. 28.<br/> Early Harvest, pl. 58; do pl. 18, fig. 2.<br/> Early Winter, pl. 19: this is a first rate apple, in its season, and resembles, in flavor, the Lowell; its curious form and small stem are quite characteristic.<br/> Early Strawberry, pl. 58.<br/> Ellis's Seedling: an excellent seedling, which originated in the orchard of Mr. Ellis, of Onondaga county; it ripens in autumn; yellow, large and fair, pl. 31.<br/> Esopus Spitzenburgh, pl. 23.<br/> Fallawater, pl. 46, fig. 1.<br/> Fall Harvey, pl. 74.<br/> Fall Pippin, pl. 18, fig. 1.<br/> Fall Strawberry, pl. 75.<br/> Fameuse, pl. 48, fig. 2.<br/> French Pippin, pl. 45, fig. 1.<br/> Galway Red, pl. 35, fig. 1: the fruit is beautiful in form and color, and is supposed to be a seedling, but is only second rate.<br/> Gloria Mundi, pl. 36: it is a small variety, but rather of a finer texture than the most common one sold in this market.</p> | <p>Gloria Mundi, pl. 34, bis, represents the common form and size, as sold in the Albany market; do, pl. 35.<br/> Gravenstein, pl. 28, fig. 1.<br/> Hall's Pippin, pl. 79.<br/> Hawley, pl. 24.<br/> Hawthornden, pl. 36.<br/> Holland Pippin, pl. 79.<br/> Hollow Core Pippin, pl. 78.<br/> Hubbardston Nonsuch, pl. 51.<br/> Hulburt's Seedling, pl. 49.<br/> Jersey Crab, pl. 39.<br/> Jonathan, pl. 25.<br/> Kroom, pl. 37, fig. 1 and 1 A: sweet, and is well known among the Dutch of Albany and Rensselaer counties.<br/> Lady Apple, pl. 47.<br/> Lafayette Red, pl. 20: deep red; angular; above the medium size; Onondaga county.<br/> Lemon Pippin, pl. 81.<br/> Lowell Apple, pl. 40.<br/> Maiden's Blush, pl. 30.<br/> Mark's New Strawberry, pl. 52, fig. 1.<br/> Marshall, pl. 21: color fine scarlet; above the medium size; angular; can be rated only as No. 2, for eating, but fine for cooking; known in Christian Hollow, in Onondaga county, where many seedlings appear to originate.<br/> Mountain Greening: it is less valuable than the Rhode-Island Greening; originated in Vermont, but was obtained from Onondaga county, pl. 21.<br/> Melon, pl. 76.<br/> Newtown Pippin, pl. 33.<br/> Palmer's Graft: a seedling of Onondaga county, pl. 19.<br/> Peck's Pleasant, pl. 74.<br/> Pie Apple: used and celebrated for cooking in Onondaga county, pl. 19.<br/> Pennock, pl. 45.<br/> Pomme Gris, pl. 77.<br/> Porter, pl. 27.<br/> Prince's Russet, pl. 20.</p> |
|--|---|

Red Astracan, pl. 58.  
 Red Rauce, pl. 57.  
 Red Canada, pl. 42.  
 Rhode Island Greening, pl. 22.  
 Richfield Nonsuch, pl. 42.  
 Ridged Pippin, pl. 55.  
 Royal Carmine: of Onondaga and Cortland counties, pl. 21.  
 Royal Sweeting: this is also an Onondaga apple, but only second rate for eating, pl. 18.  
 Roxbury Russet, pl. 18.  
 Salisbury's Pippin, pl. 21.  
 Salisbury Sweeting, pl. 19.  
 Slingerland Fall Pippin: a seedling from the Newtown Pippin, and originated with Mr. Slingerland of Albany county, pl. 32.  
 Scolloped Gilliflower, (German,) pl. 44.  
 Spitzenburgh, pl. 17.  
 Sheep's Nose, pl. 52.  
 Spanish Pippin, pl. 51.  
 Summer Wine, pl. 50.  
 Spotted Pippin, pl. 33.  
 Strawberry Apple? pl. 62, fig. 1: but its name remains undetermined; furnished by Mr. Marks, of Greene, one of the most enlightened Pomologists of this State.  
 Swaar, pl. 22, fig. 2.  
 Teller's Seedling Russet: originated in the orchard of Mr. Teller, of Greenbush, pl. 37, fig. 2.  
 Wagener, pl. 41.  
 Warren Pippin, pl. 54.  
 White Vandervere, pl. 24.  
 Winter King, pl. 38.  
 William's Seedling, pl. 19: this is an excellent sweet seedling of Onondaga county.  
 Victorious Reinette, pl. 49.  
 Vandervere, pl. 55.  
 Virginia Sweeting, pl. 74, fig. 1.  
 Yellow Bellefleur, pl. 46.  
 Yellow Newtown Pippin, pl. 23.

## II. PEARS.

Andrews, pl. 8.  
 Autumn Bergamotte, pl. 10 d, bis.  
 Bartlett, pl. 12.  
 Beurré de Aumalis, pl. 18: figured before ripened.  
 Beurré Diel, pl. 5, bis.  
 Beurré de Aremburgh, pl. 10.  
 Bezi de Naples, pl. 16.  
 Belle et Bon, pl. 78.  
 Bleeker Meadow, pl. 11.  
 Bloodgood, pl. 13 d.  
 Buffum, pl. 14 d.

Capianmont, pl. 9 d.  
 Chaumontelle, pl. 16.  
 Catillac, pl. 5, bis.  
 Dix, pl. 15.  
 Duchess of Angouleme, pl. 10 d.  
 Easter Beurre, pl. 6, bis.  
 Frederick of Wurtemburgh, pl. 6, bis.  
 Fulton, pl. 14 d.  
 Flemish Beauty, pl. 12 d.  
 French Seckel, pl. 5.  
 Gray Doyenné, pl. 13 d.  
 Gil O Gil, pl. 75.  
 Glout Moreau, pl. 9.  
 Heathcote, pl. 7.  
 Lewis, pl. 6 d.  
 Louis bon de Jersey, pl. 7.  
 March's Seedling: said to be a seedling winter, and very excellent keeper: keeps till spring, pl. 6.  
 Marie Louise, pl. 9 d, bis.  
 Passe Colmar, pl. 8.  
 Roy de Wurtemburgh, pl. 9 d.  
 Salisbury's Seedling, pl. 11.  
 Seckel, pl. 5.  
 Seckel, pl. 9 d, bis.  
 Striped Germain, pl. 14.  
 Swan's Pear, (or Swan's Orange,) pl. 8.  
 Swan's Orange, pl. 10 d, bis.  
 Trout, pl. 11 d.  
 Stevens's Genesee, pl. 6 d.  
 Virgallieu, pl. 5.  
 Winter Bell, pl. 6.  
 Winter Nellis, pl. 9 d.  
 Vicar of Winkfield, pl. 12.  
 Washington, pl. 12 d.  
 White Doyenné, pl. 14.

## III. PEACHES.

Albany Seedling, pl. 17.  
 Belle Gira, pl. 71.  
 Early Barnard, pl. 64.  
 Golden Nectarine, pl. 72.  
 Golden Rareri, pl. 68.  
 Noblesse, pl. 64.  
 Large Early Violet, pl. 73.  
 Prince's Rareri, pl. 66.  
 Royal Kensington, pl. 70.  
 Sweet Water, pl. 67.  
 Whitbeck's Yellow Seedling, pl. 65.

## IV. PLUMS.

Albany Beauty, pl. 1 d.  
 Buel's Favorite, pl. 1.  
 Bleeker's Plum, pl. 8.

Coe's Golden Drop, pl. 5 a.  
 Denniston's Red, pl. 3.  
 Denniston's Seedling, pl. 2.  
 Denniston's Superb, pl. 2.  
 Egg Plum, pl. 3 a.  
 Eleanor, pl. 4 a.  
 Green Gage, pl. 4.  
 Lawrence Favorite, pl. 4.  
 March's Seedling, pl. 2.  
 Magnum Bonum, pl. 1: do pl. 3.  
 Mirabelle, pl. 1.  
 Mulberry Plum, pl. 2 a.  
 Pardrigton, pl. 4.  
 Purple Seedling, pl. 2 a.  
 Prune Plum, pl. 4 a.  
 Quackenbush, pl. 3 a.  
 Schenectady Catharine, pl. 1 a.  
 Yellow Seedling Plum, pl. 1.

## V. CHERRIES.

Wendell's Mottled Bigarreau: no number.  
 White Bigarreau, pl. 63.  
 Black Tartarian, pl. 63.

## VI. CURRANTS.

White Dutch, pl. 76.  
 Red Dutch, pl. 76.  
 Champaigne, pl. 76.  
 Black Naples, pl. 76.

## VII. RASPBERRIES.

Yellow Antwerp, pl. 61.  
 New Red Antwerp, pl. 62.

## VIII. GOOSEBERRIES.

Champion, pl. 59.  
 Edward's Jolly Tar, pl. 59.

Woodward's White Smith, pl. 59.  
 Wainman's Green Ocean, pl. 59.  
 White Eagle, pl. 76.  
 Sulphur Yellow, pl. 60.  
 Champaigne, pl. 60.  
 Pitmaston's Green, pl. 60.  
 Green Walnut, pl. 60.

## PEAR STEMS,

## SHOWING THE COLOR OF THE BARK.

Plate 16 c. This character is less constant than the color and form of the fruit; the shade of the color depending much upon the light to which it is exposed.

1. Easter Bergamot, (green.)
2. Louise Bonne of Jersey, (brown.)
3. Swan's Orange, (yellowish green.)
4. Madeleine, Heaticote, (reddish brown.)
5. Maria Louise, Steven's Genesee, (olive gray.)
6. Gray Doyenné, Gansel's Bergamot, (grayish brown.)

NOTE.—Among the varieties which have been figured, there are a few examples, about which different pomologists differ. The Westfield Seekno further, the Richfield Nonsuch and the Hubbardston Nonsuch, were received from well informed cultivators of fruit, yet they differ in form and size. In raising from seed, very similar varieties seem to be produced. This is remarkably seen in the Spitzenburgh; thus, fig. 2, pl. 36 represents a variety of Spitzenburgh often seen in market, that is, it possesses its flavor. Fig. 3, of the same plate, the name was lost by the engraver, and I have some doubts with respect to its true name, and have, therefore allowed it to remain blank.



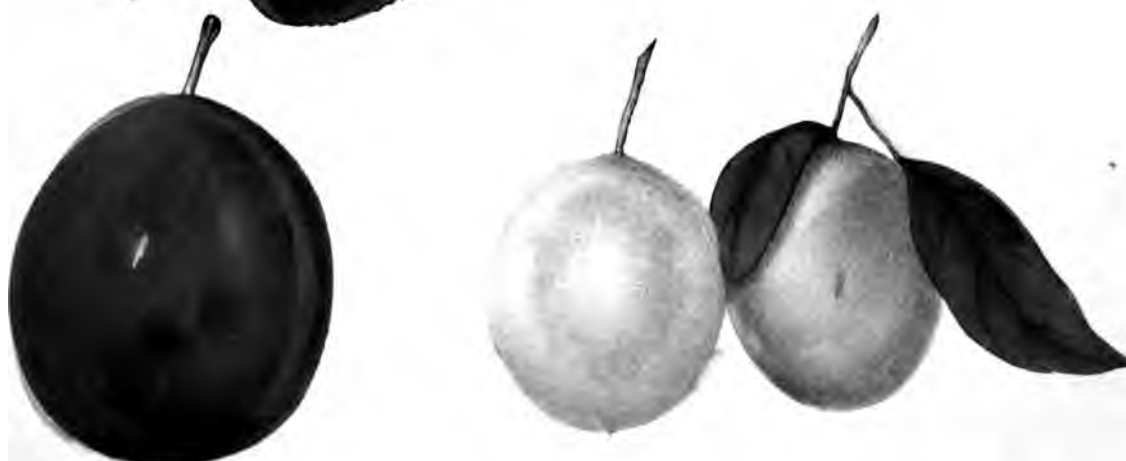




*Buel's Favorite.*



*Mirabelle.*



*Yellow Seedling.*

*Magnum Bonum.*





**PLATE II.**



*Denniston's Superb.*



*Denniston's Seedling.*



*March's Seedling.*



Pl. 2. a.



On Stone by F. J. Swinton

Pl.

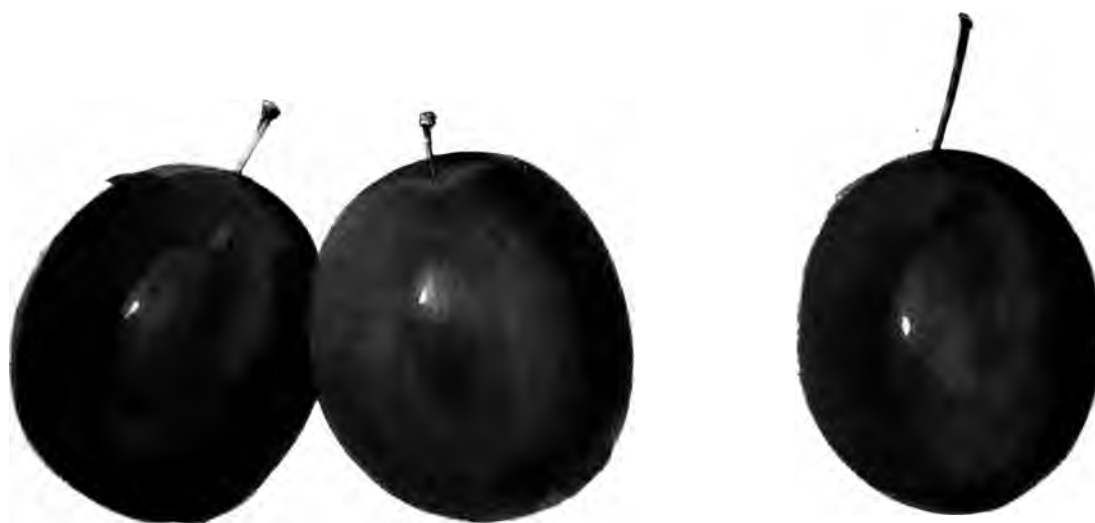
Lith. of P. H. Pease Albany, N. Y.

2. MULBERRY PLANT.





*Magnum Bonum.*



*Bleeker Plum.*

*Denniston's red.*







1. *Prunella domestica*

2. *Prunella domestica*

1. *Prunella domestica*  
2. *Prunella domestica*





*Lawrence's Favorite.*



*Pardington.*



*Green Gage.*



Pl. 4. a.



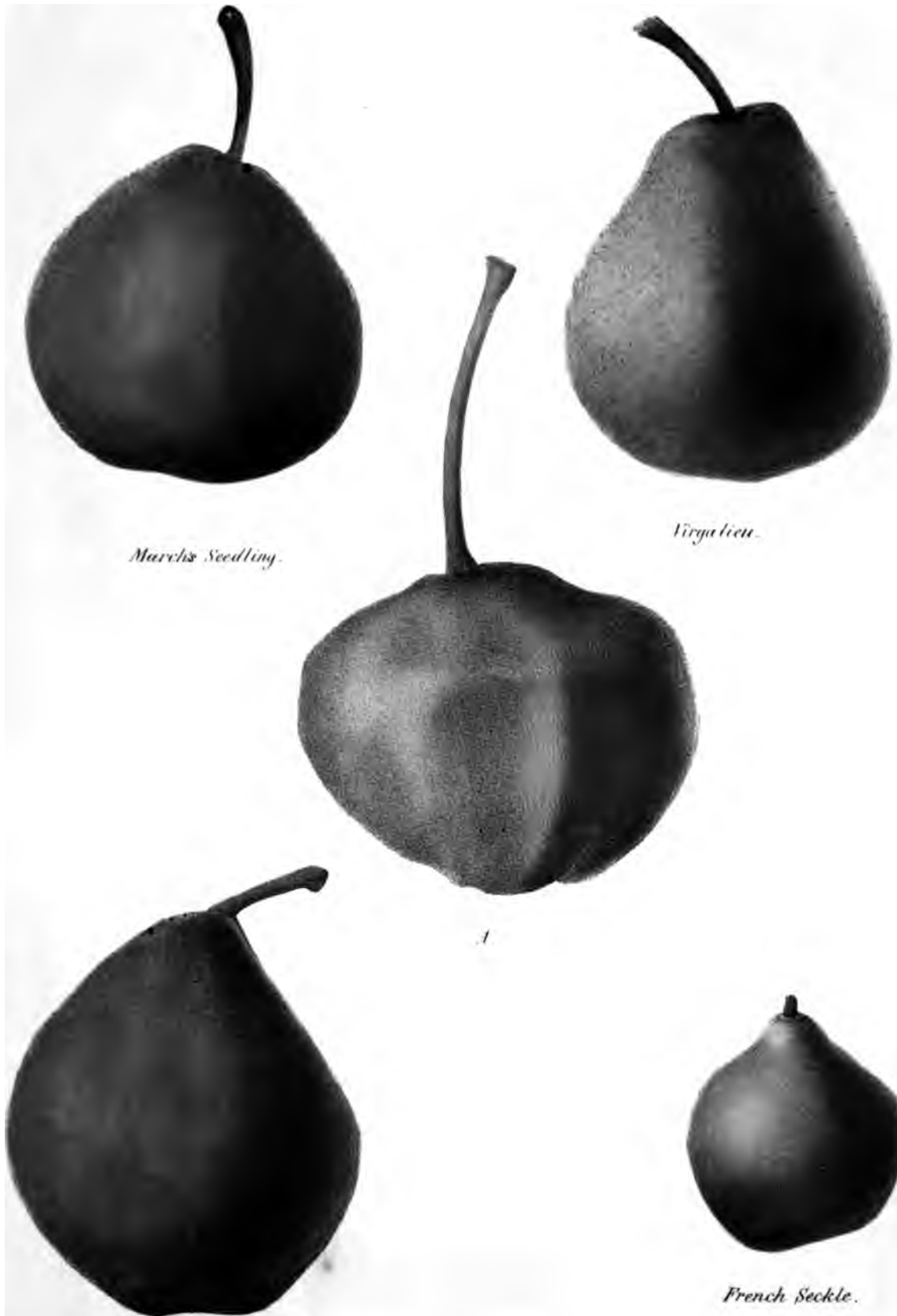
On Stone by Swinton

Red Plum - Rich Albany

1. *Prunella americana*

2. *Prunella pennsylvanica*





*Marche Seedling.*

*Virgaten.*

*A.*

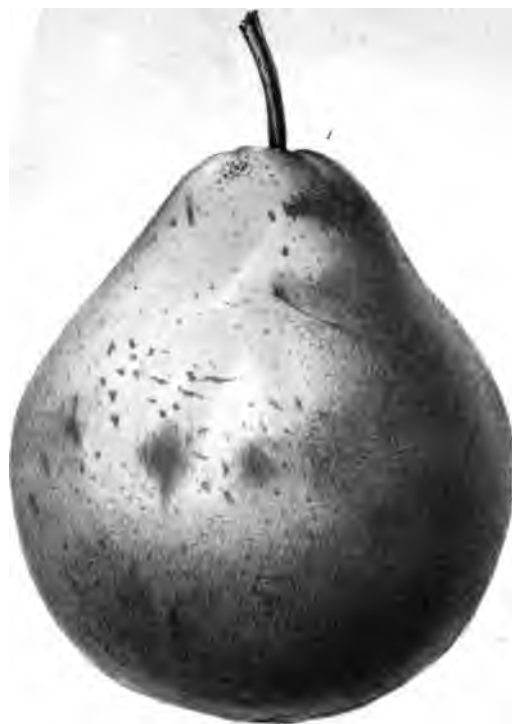
*Seckle.*

*French Seckle.*





Pl. 5.

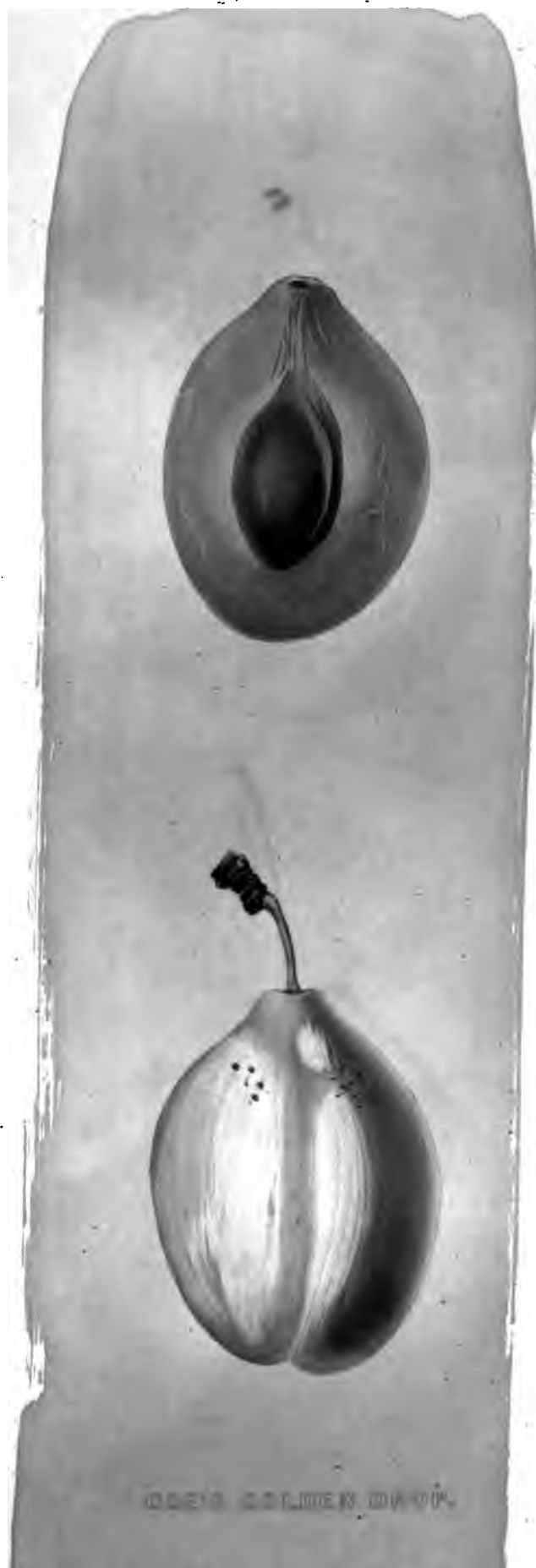


Edmonds of del

R. H. Pease Lith Albany

1. 1890-1891. 2. 1891-1892.





JOHN COLMAN DAVIS

1900

1

2

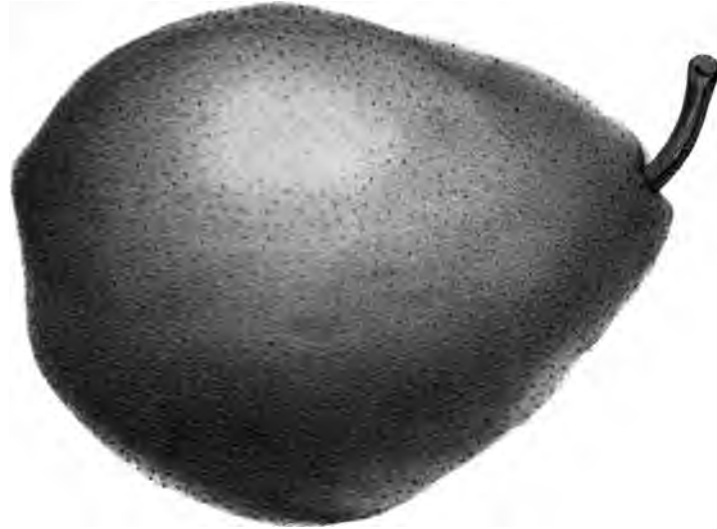
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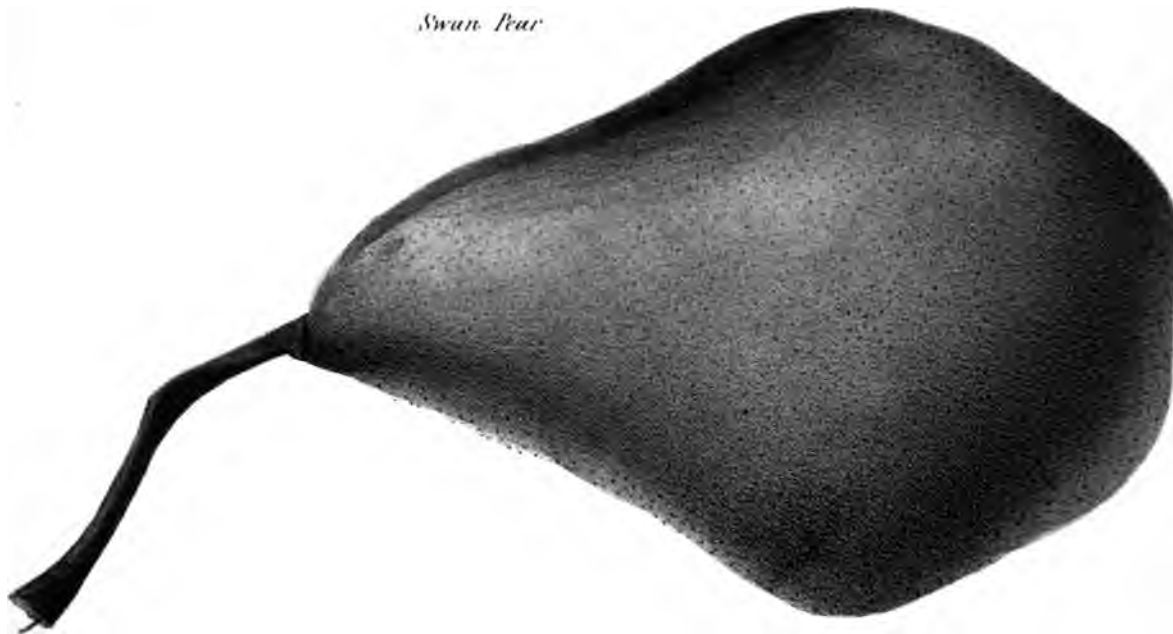
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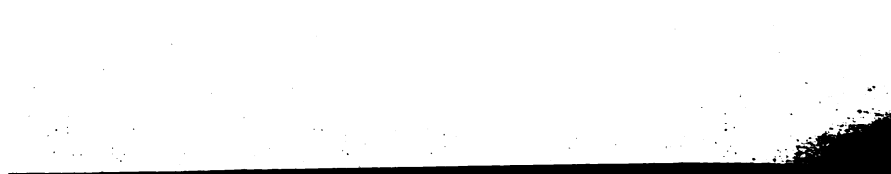
*PLATE VI.*



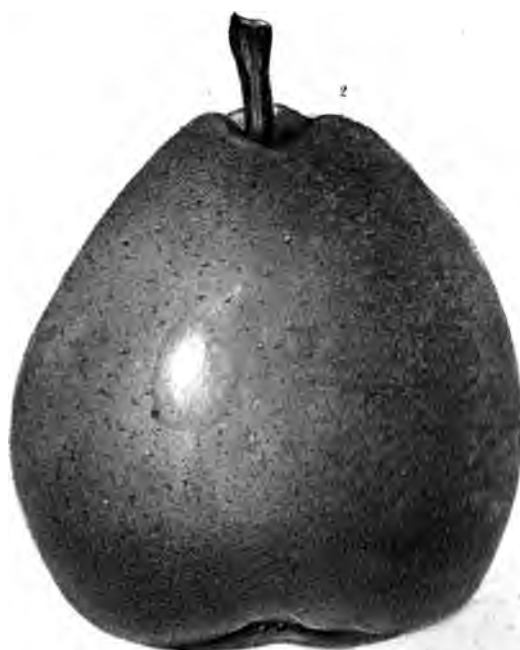
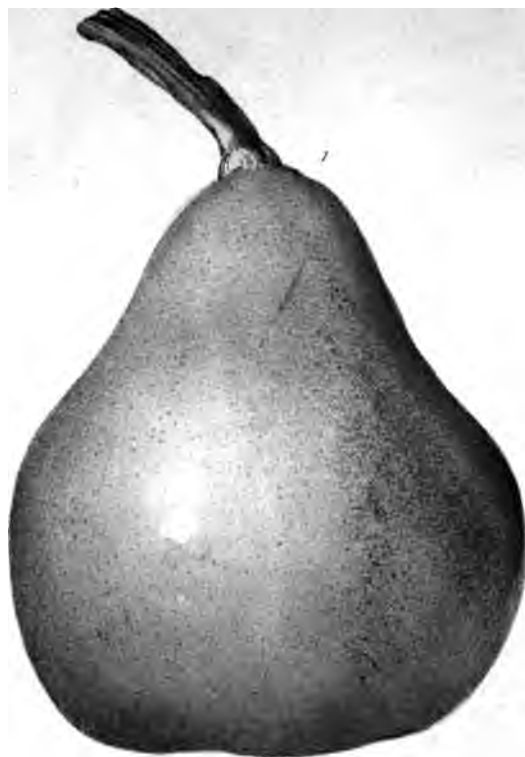
*Swan Pear*



*Winter Bell Pear.*



Pl. 6.



E. Emmons del.

R. H. Pease Lith. Albany

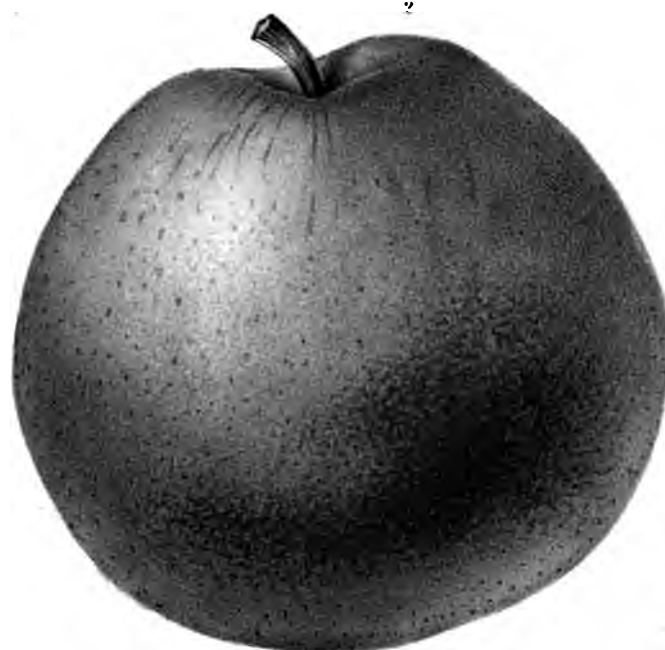
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Pl. 6. d.

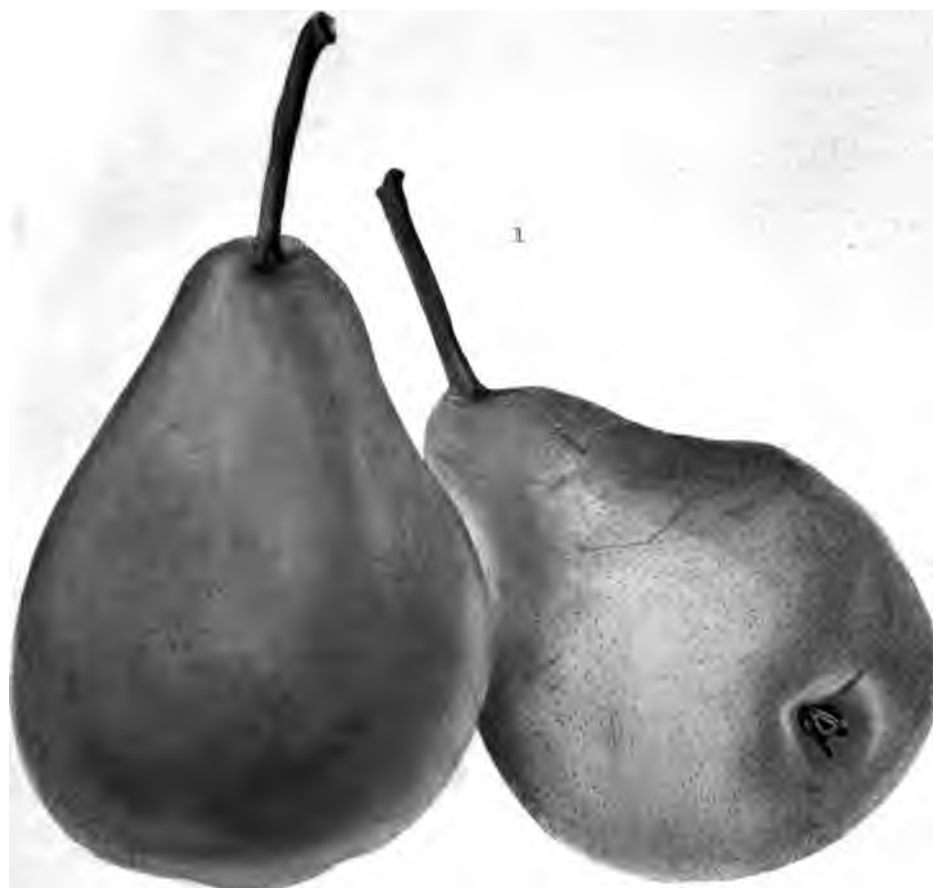


E. Emmons. Det.

R. H. Pease with A. Gray.

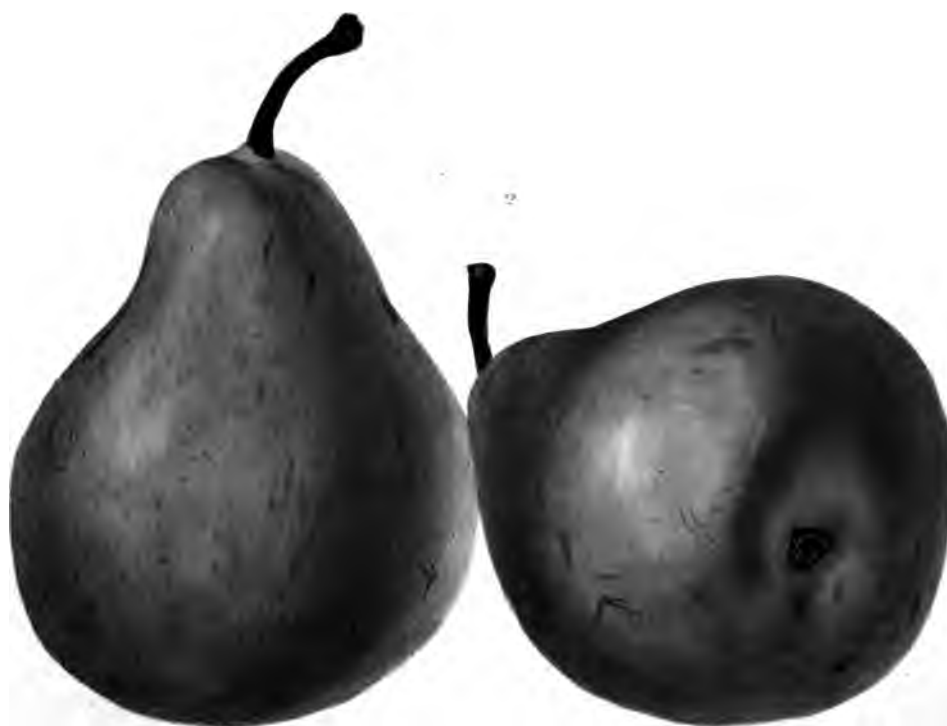
1. LEWIS. 2. SOUTHERN PLUM.





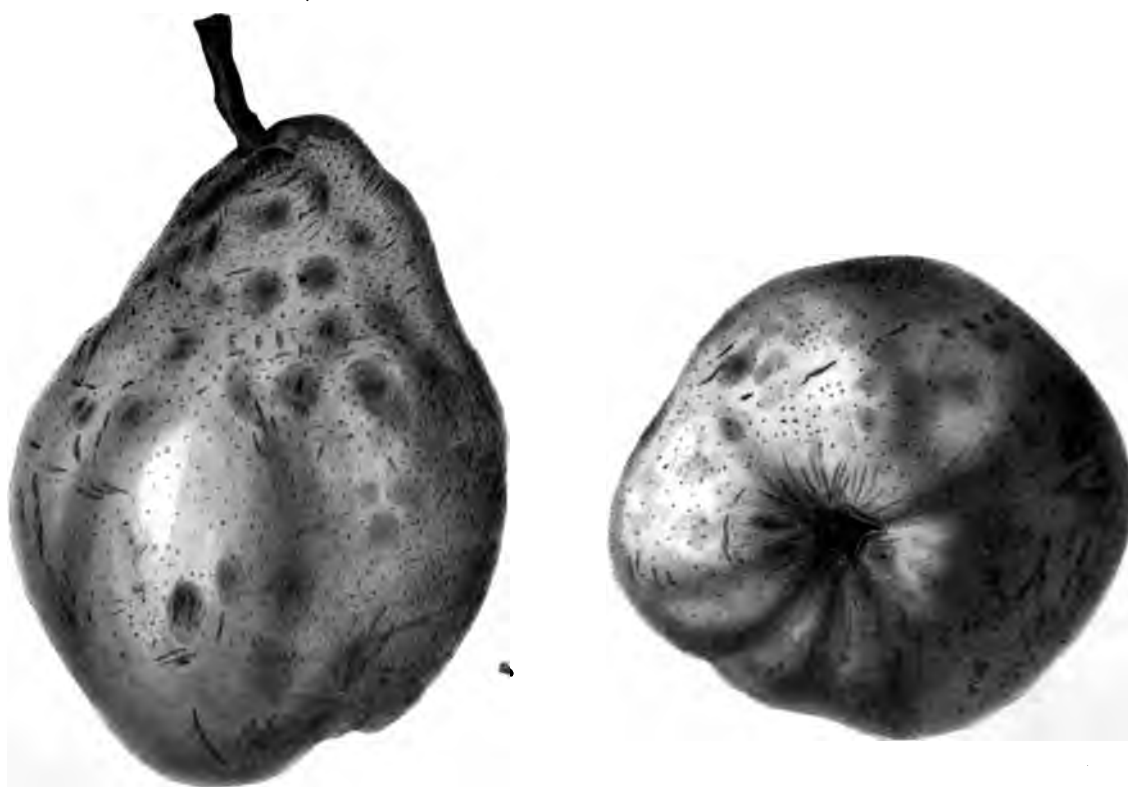
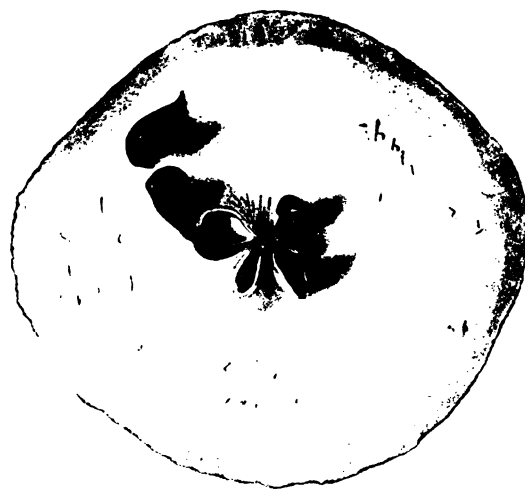
1. LOUISE BONDENBERGER, 2, THEATRE BOULEVARD.





1. PASSE COLMAR. 2. ANDREWS PEAR.





ABOUT MEXICAN.







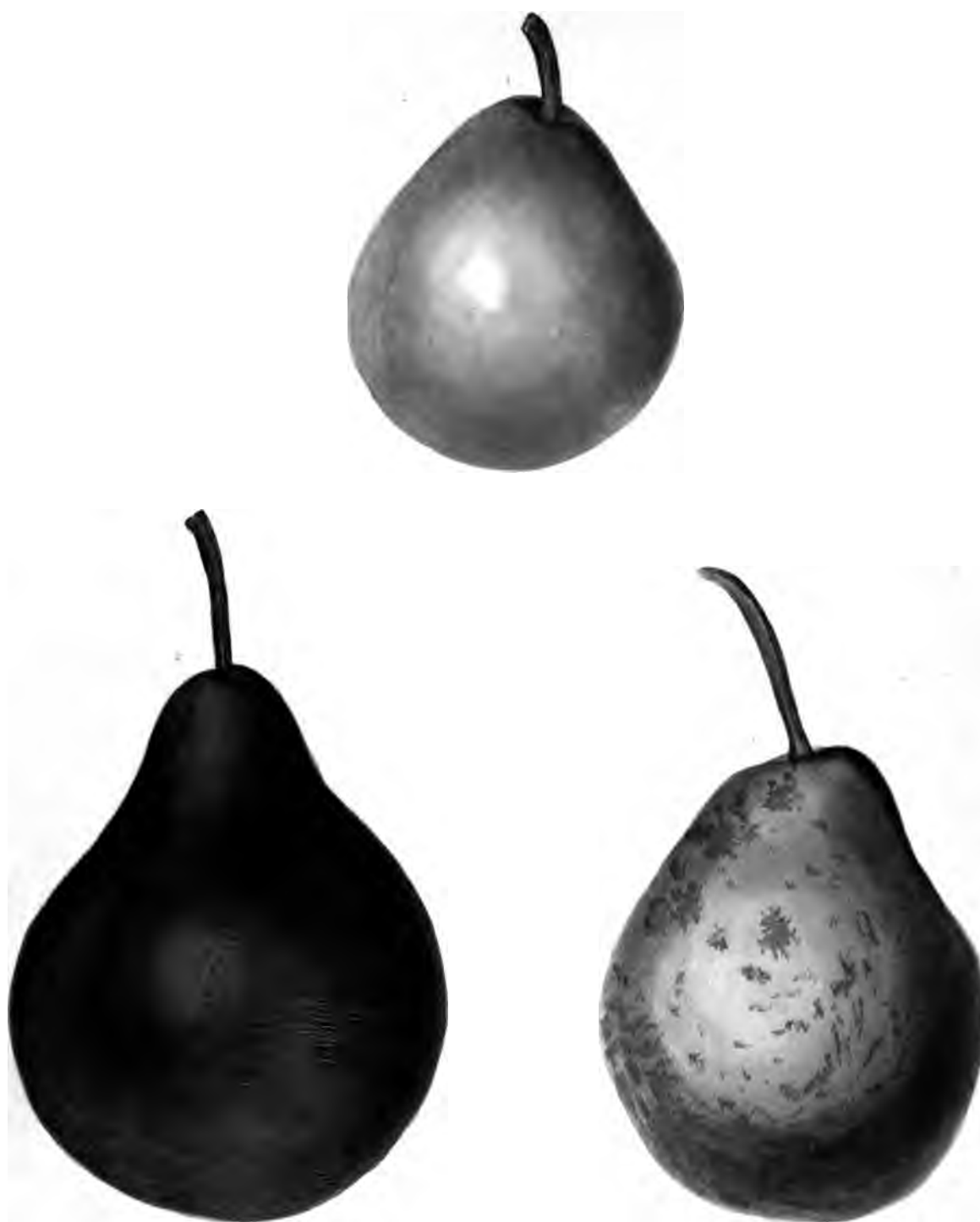
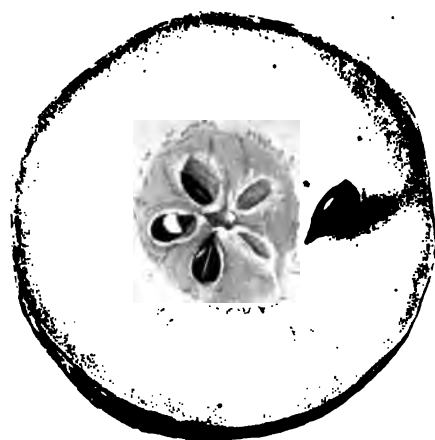


Fig. 1. Pear (left) and pear (right) (left) and pear (right) (left) and pear (right)

Figure 1. Pear

Figure 2. Pear (left) and pear (right)





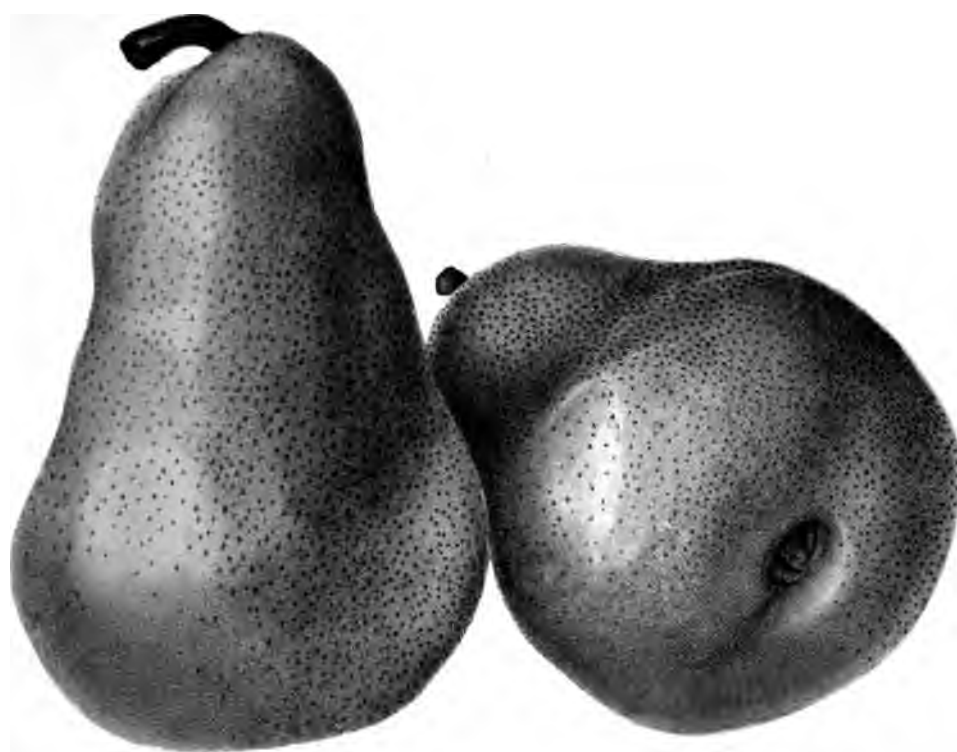
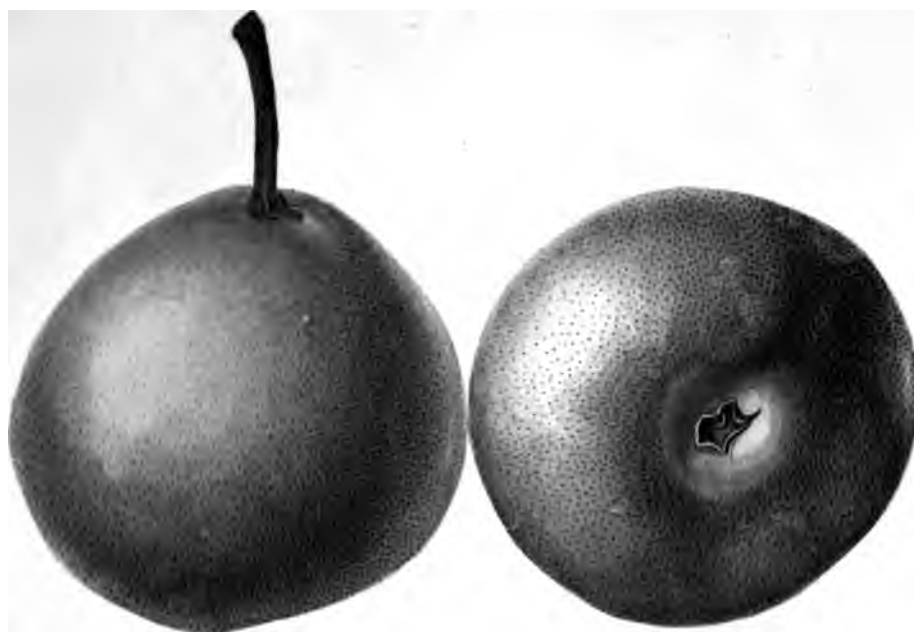
WATERMELON











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PEAR, COMMON, WITH SPOTS, AND WITHOUT SPOTS





THE VICAR OF WINNFIELD & BARTLETT.











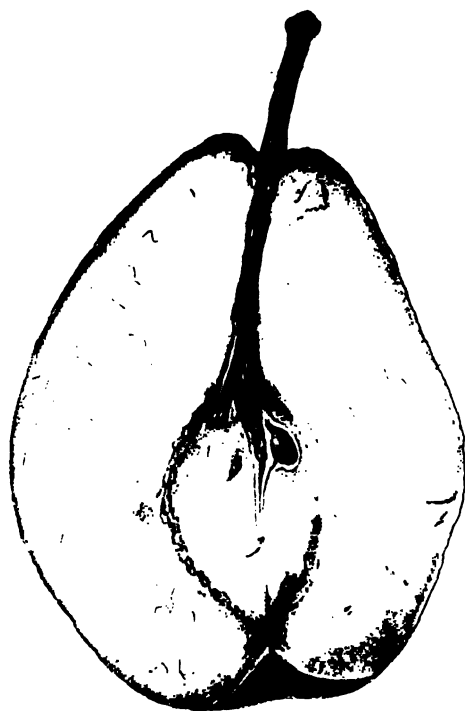








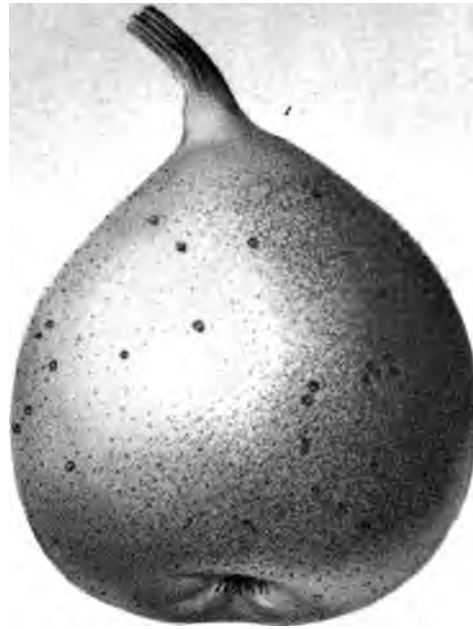








Pl. 16.



E. K. Munnings Del.

R. H. Pease Lith Albany

PL. 16. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.





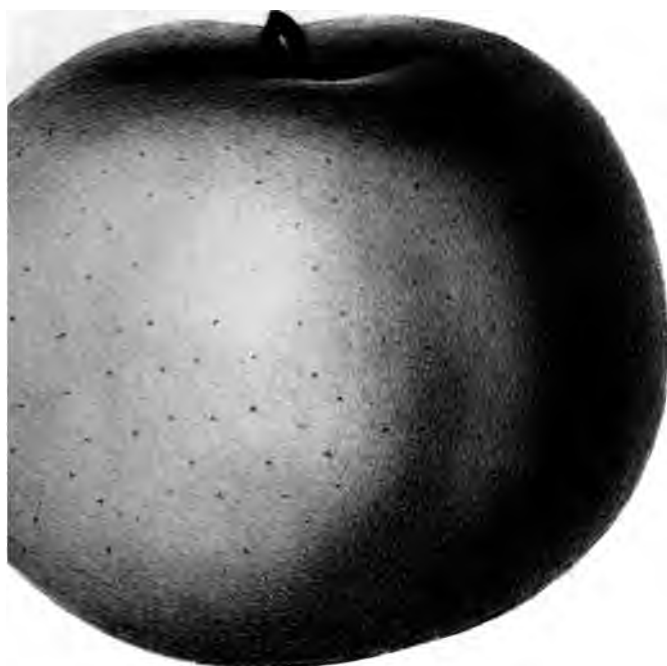


ALBANY SEEDLING PEACH.

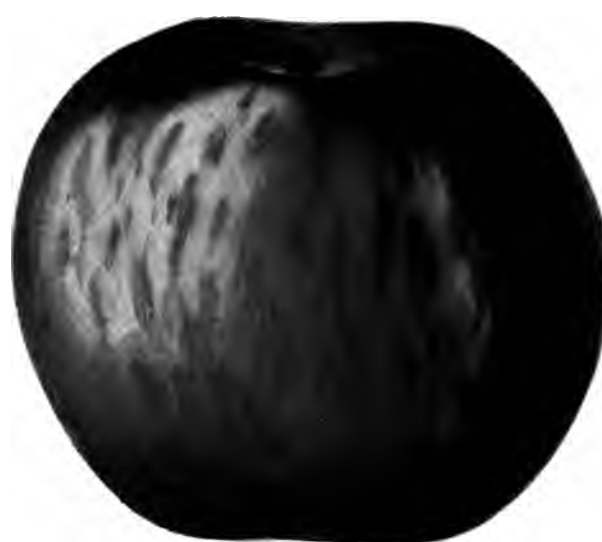
Copyright 1900 by E. H. Ketchum

Photomicrograph of the fruit

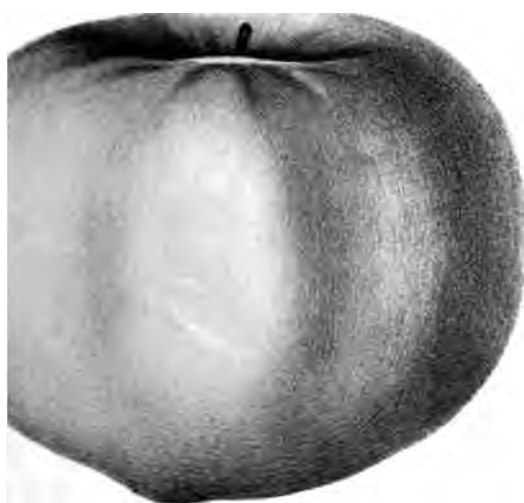




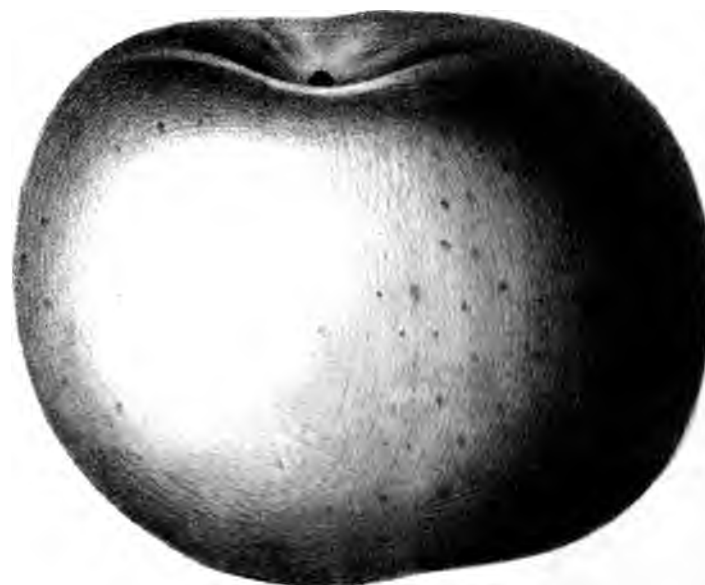
*A*



*Roxbury Russet.*



*B*



*Royal Sweeting.*









*Cherbourg*



*Lafayette Red*



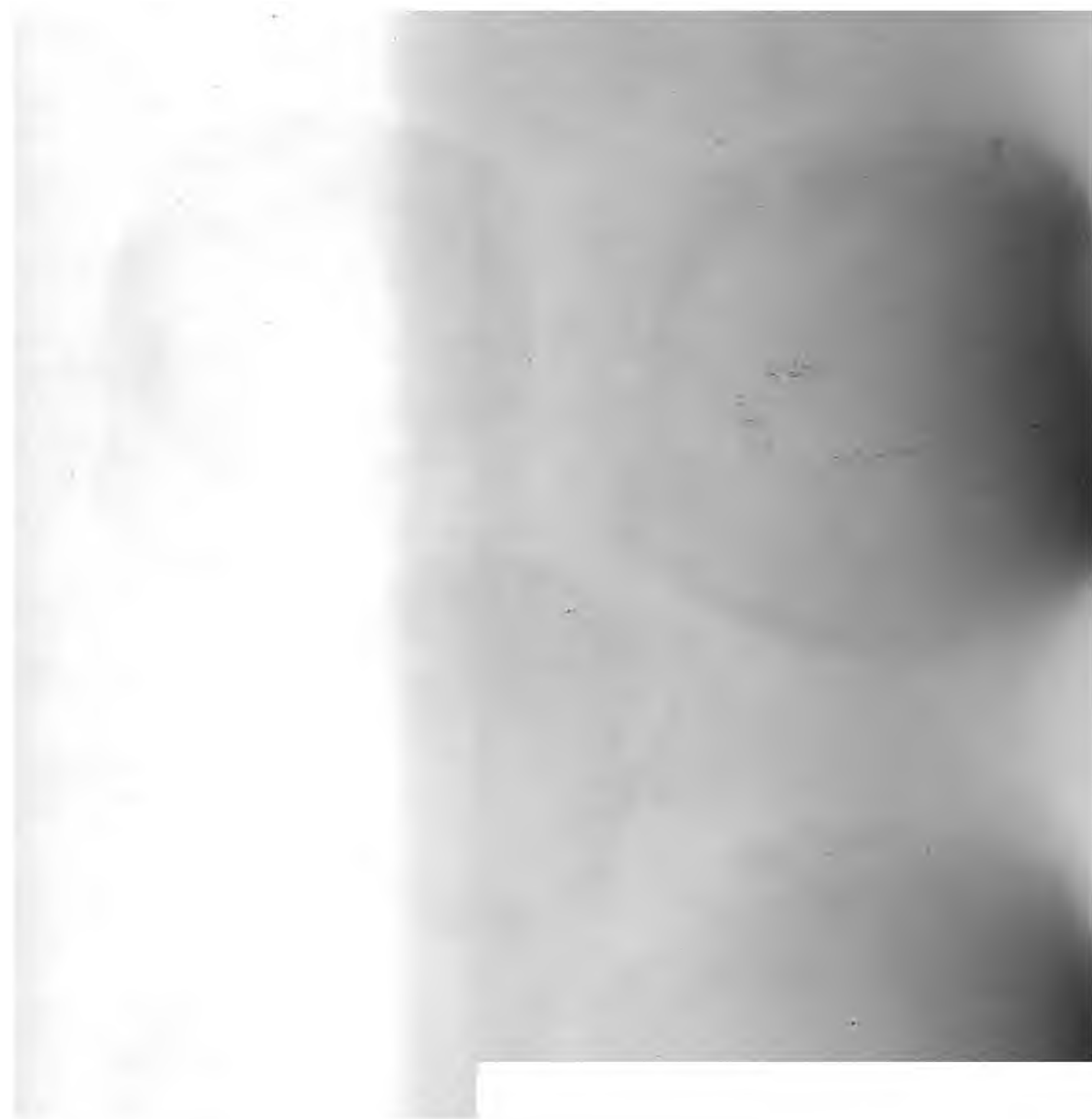
*Boston Green in the Sun*

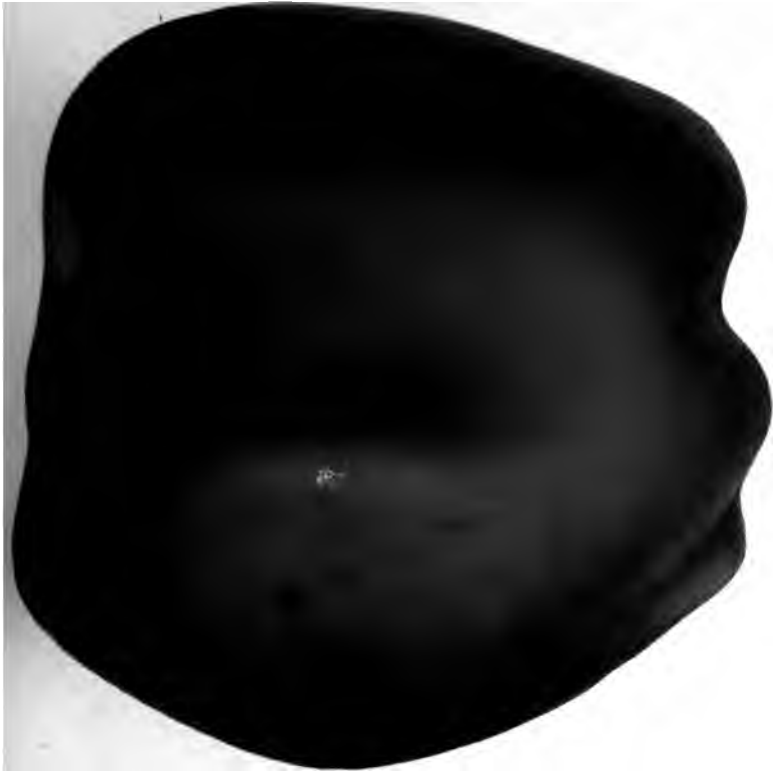


*Arthur's Sweetening*

G. & W. ENDICOTT LITH N. YORK.

PLATE 11



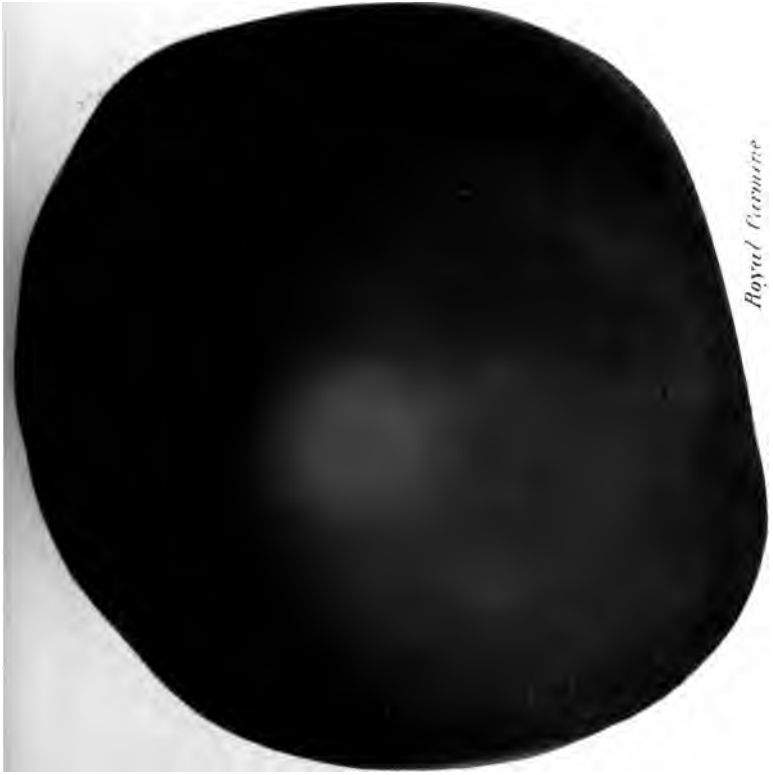


*Salisbury Pippin.*



*Salisbury Pippin.*

ONE SEED BY F. SWINTON.



*Royal Carmine.*



*Mountain Greening.*

ONE SEED BY F. SWINTON.

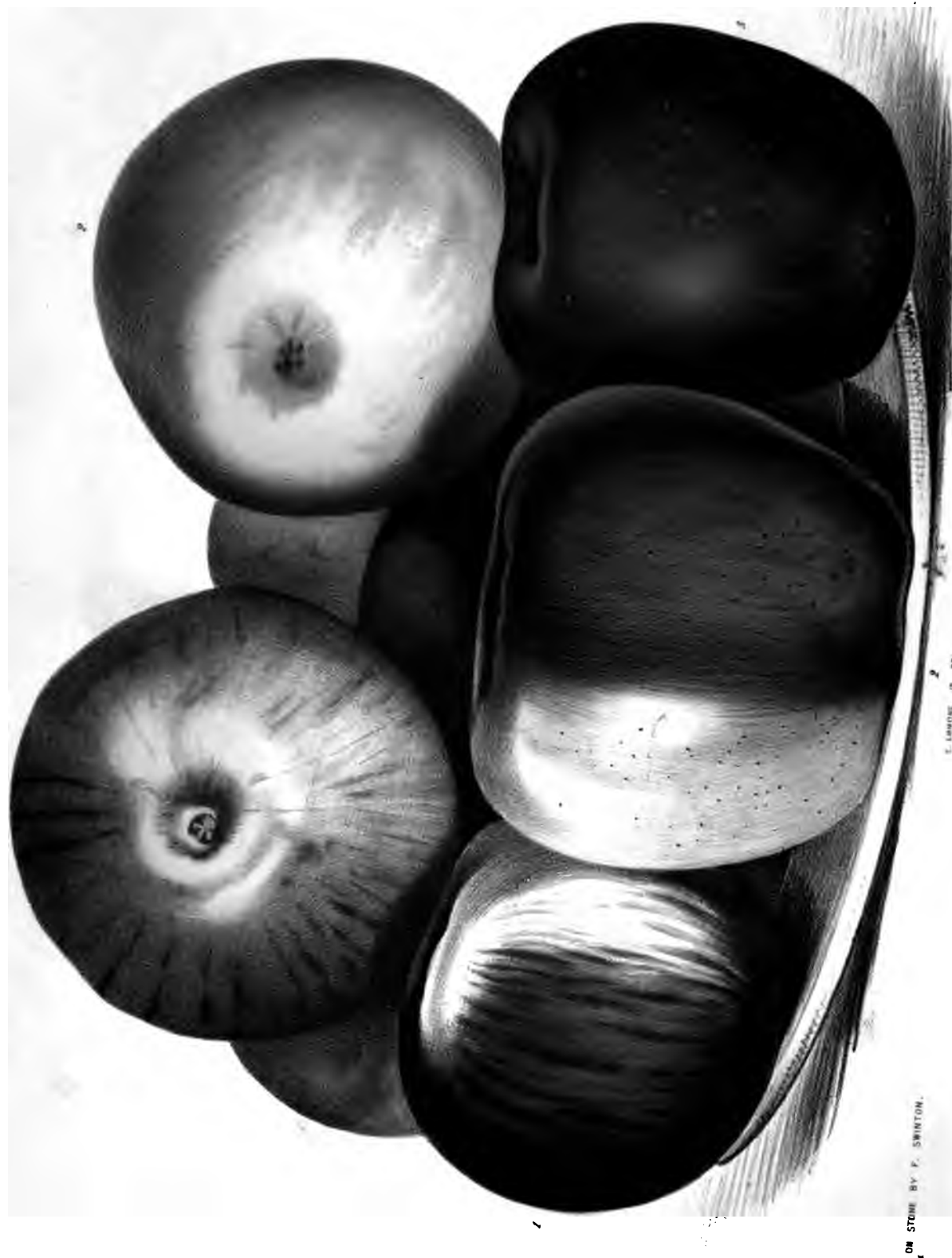
ONE SEED BY F. SWINTON.



.

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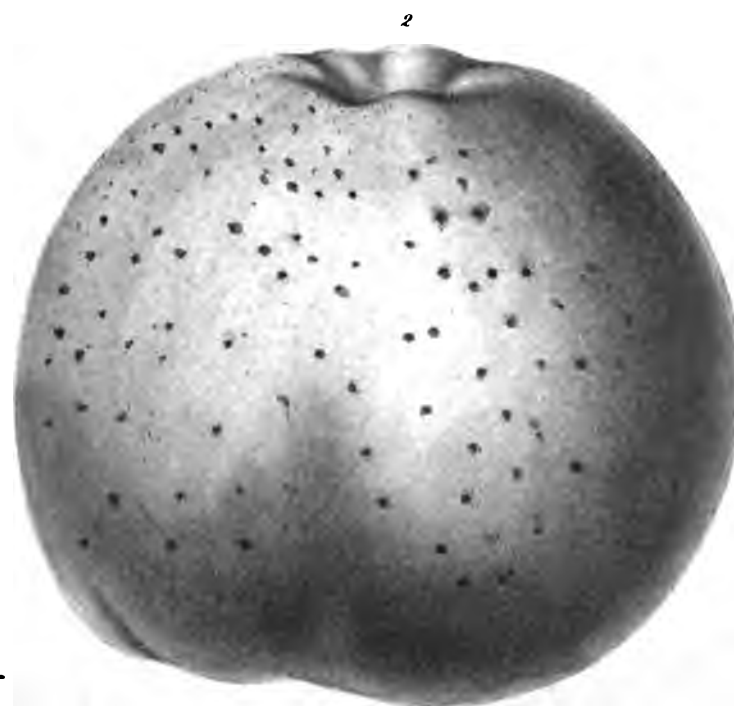


*1 Northern Spy. 2 Yellow Newtown Pippin. 3 Macoun Spitzenberg.*

G. & W. ENDICOTT'S LITH. NEW YORK.



Pl. 24.



W. H. Pease Del.

R. H. Pease Lith. Albany.

1. TOMATO VANDERBILT. 2. HAWKLEY.





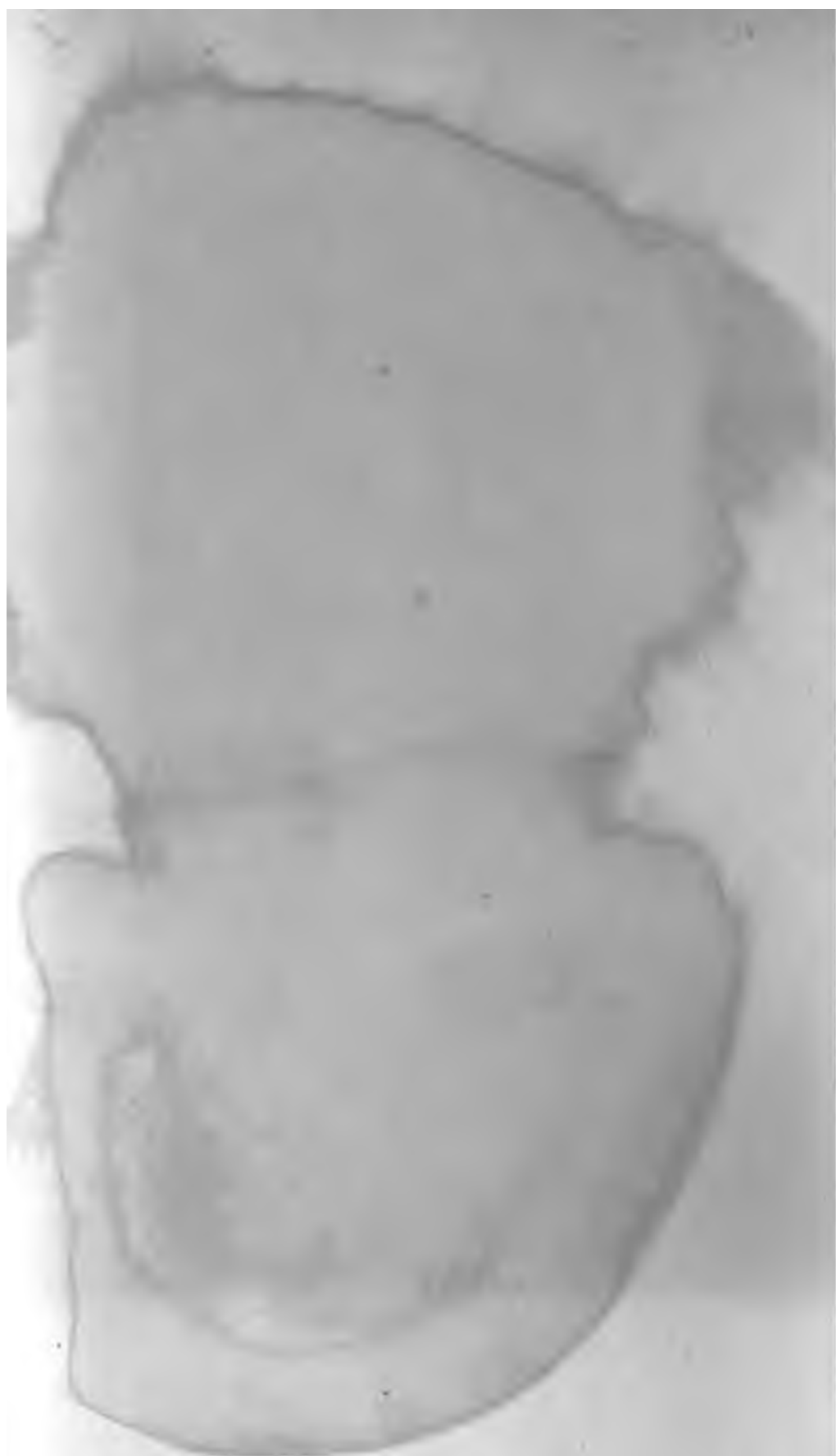
Pl. 25.

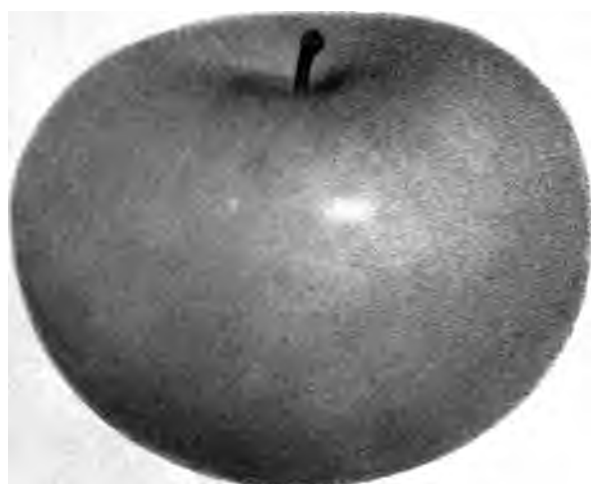


Palmer del

R. H. Pease. Lith. Albany

1. AUTUMN STRAWBERRY. 2. JONKAPPEL.





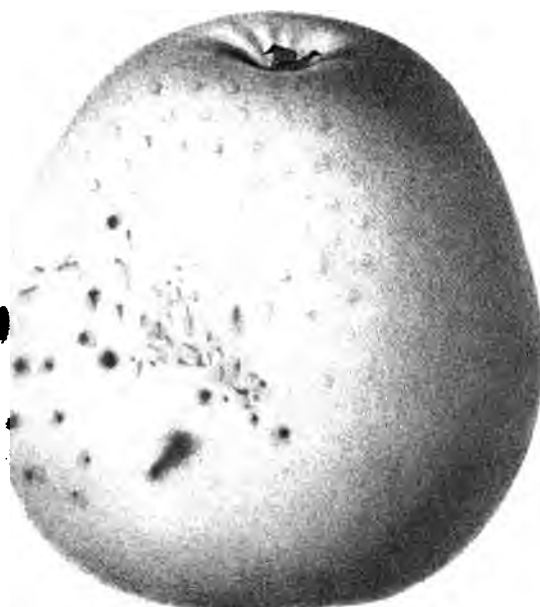
• החוקים העליונים העליונים



John of St Peter Albany



Pl. 27.



\*2w nion 16.

A H Pease with A bany

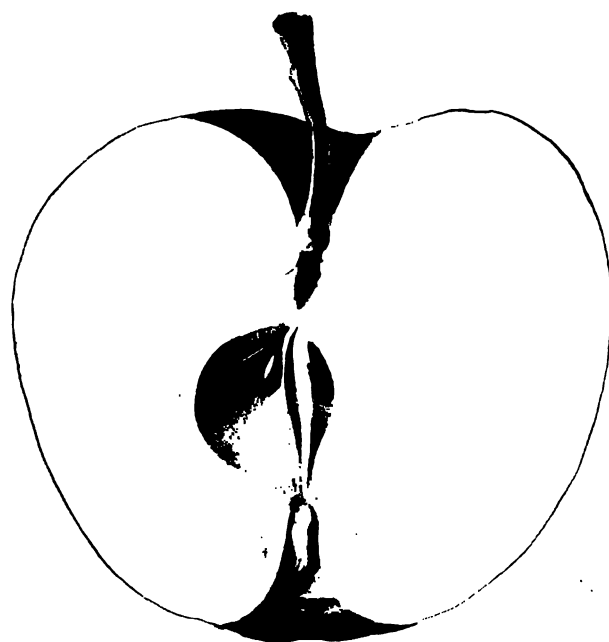
THE UNIVERSITY OF CHICAGO PRESS











THE APPLE AND THE EGG











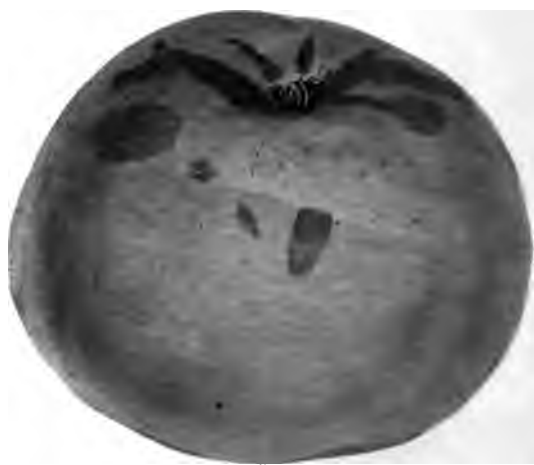


Fig. 1. 1900. 1. 1.

Fig. 2. 1900. 1. 2.

Fig. 3. 1900. 1. 3.

Fig. 4. 1900. 1. 4.





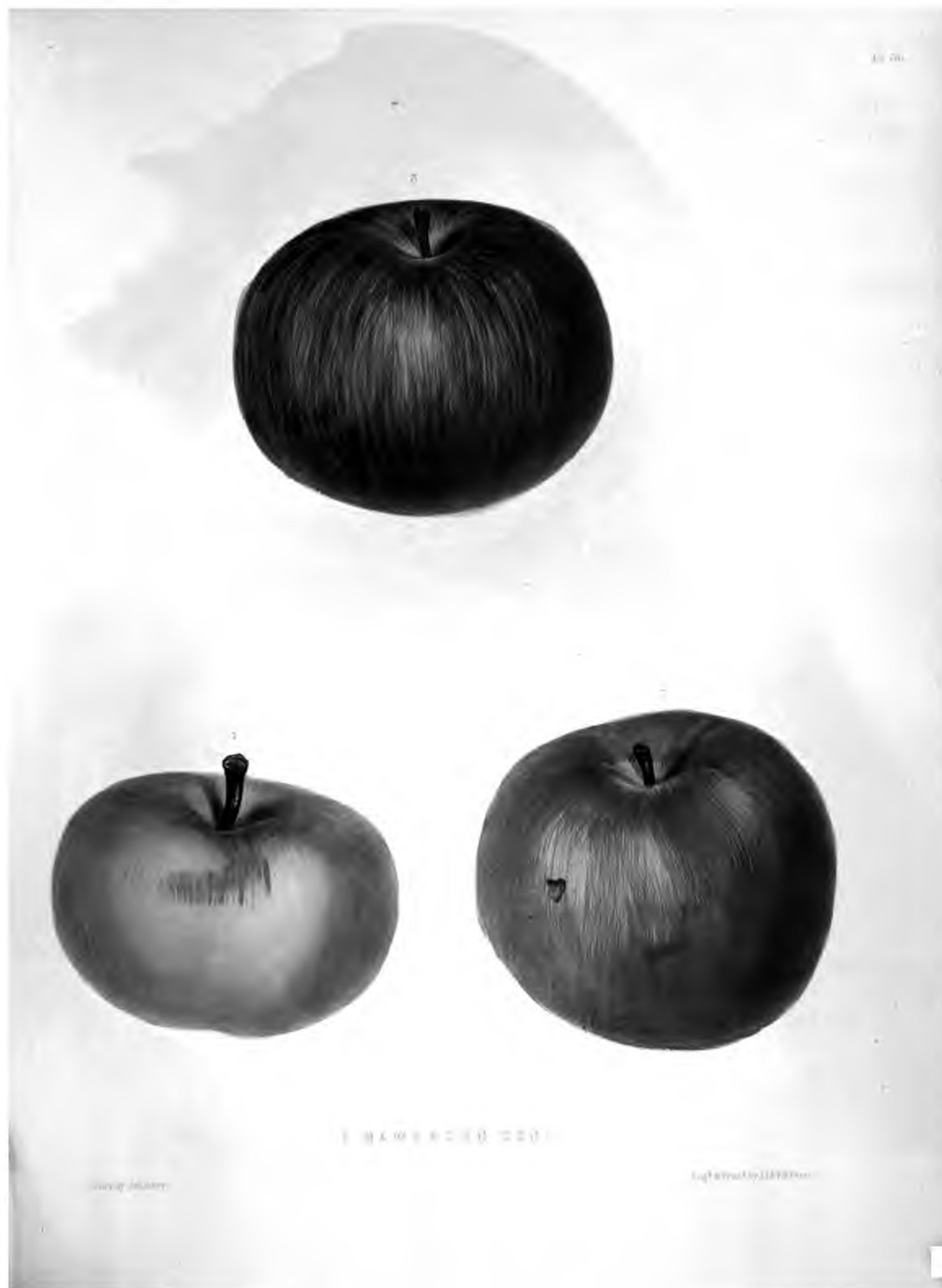


CLARK MORGAN



















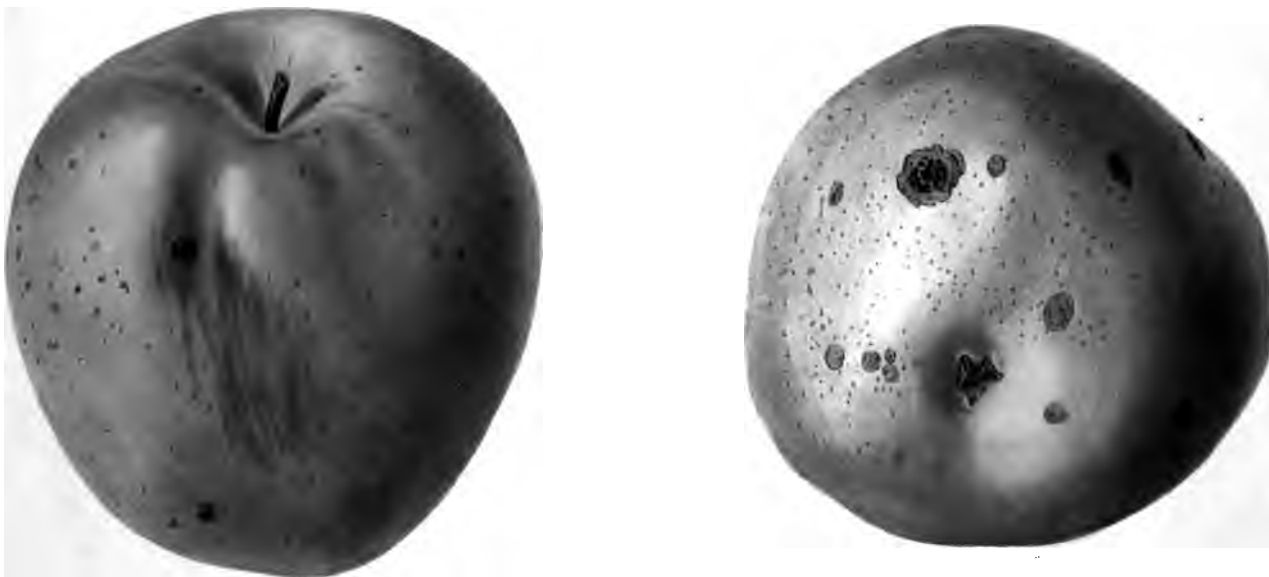


JERSEY TREE.

See also page 100.

See also page 100.





L. D. W. E. L. L. A P P L. E.

Drawn by J. E. H. M. O. F.

Engraved & Printed by G. W. & D. O. H.



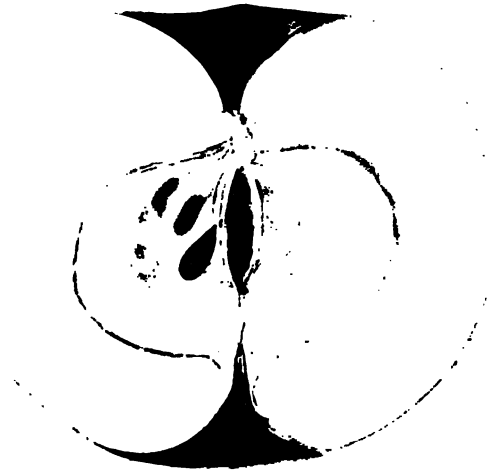
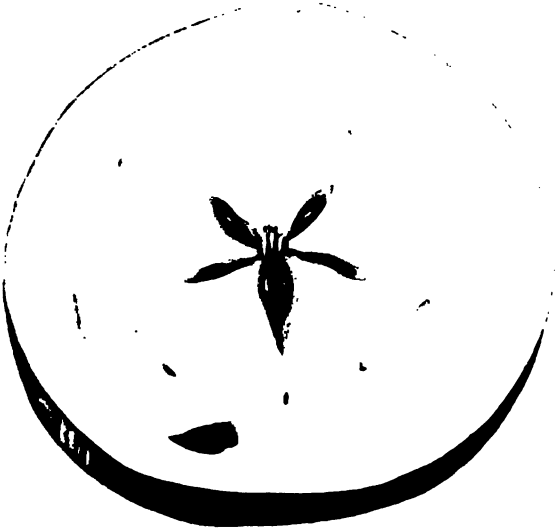
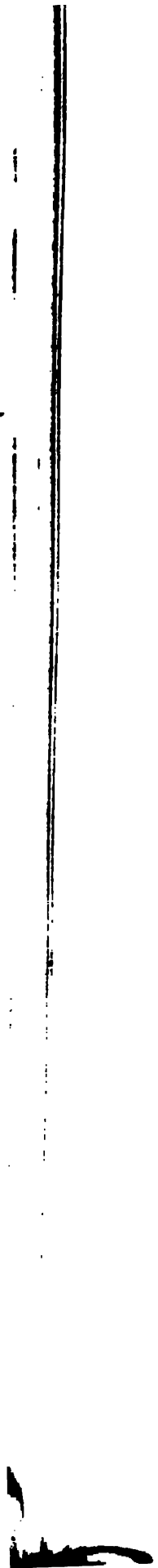


FIGURE 1. W. A. G. D. S. G. R. 1.











Pl. 45.



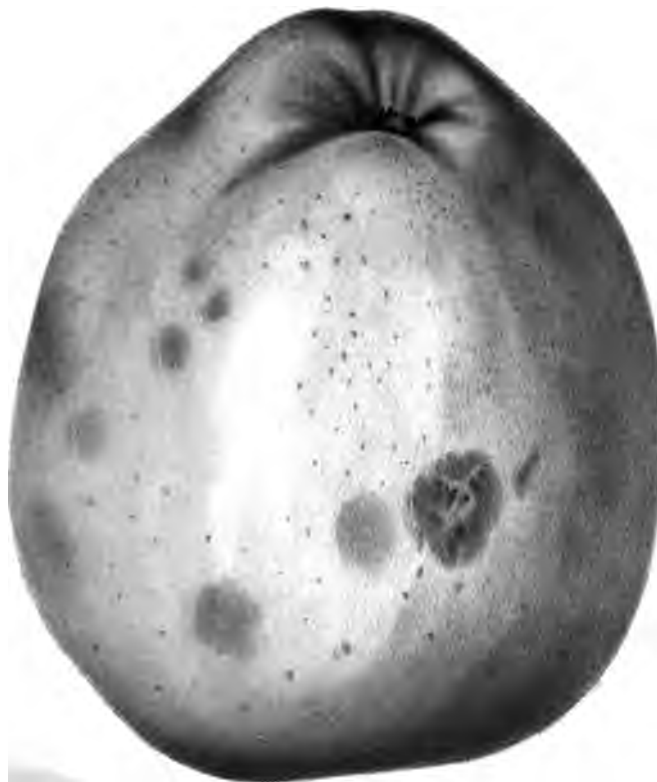
London.

R H Pease's Lith. Albany

PLANTING. 2. PLANTING.



Pl. 46.



Swinton del

R H Pease's Lith Albany

1. <sup>A</sup>PALE WATERS. 2. SWETTER W BERRIES







Pl. 48.

1



2



Swinton del.

R. H. Pease Lith. Albany.

Pl. 48. (6) (8) (10). Pl. 48. (12) (14) (16).





1.



2.



Swinton del.

R H Pease Lith Albany ~

1. SUMMER WINE. 2. NORTHERN GOLDEN SWEET.





2



L. 10000 del  
A. 514.5142 2004/2004
C. 10000 del 10000/10000
C. 10000 del 10000





2



Washington

1884

U. S. National Academy of Sciences

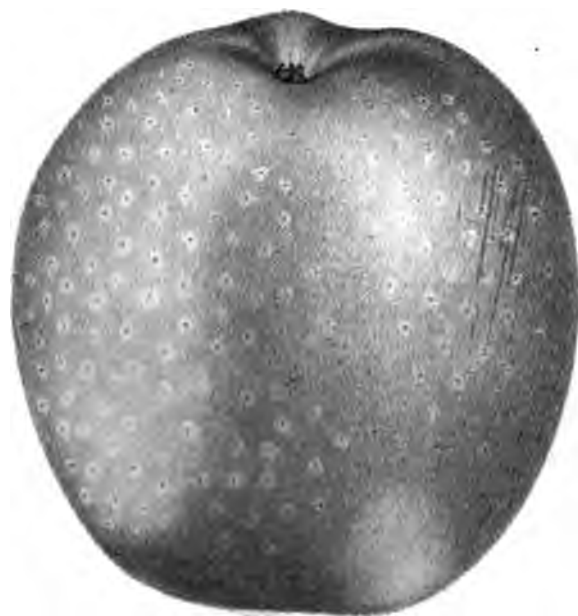
Washington, D. C.







PL. 54.



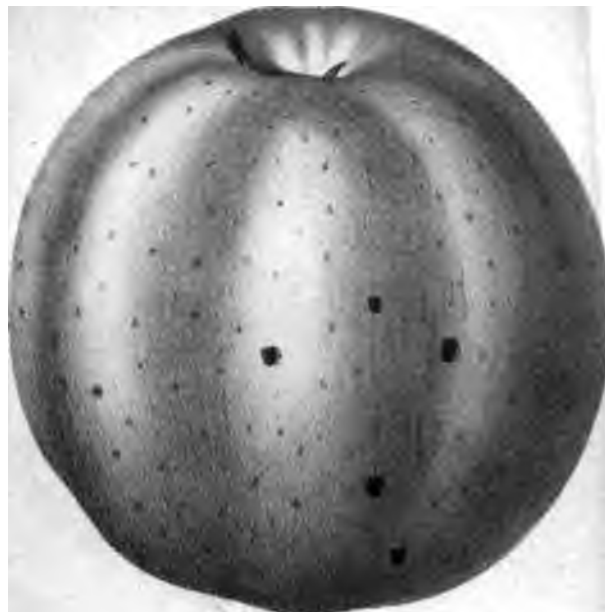
\* Swenson del.

Hil. Pease lith. Albany

1. BLUE PARNASS. 2. WALRUS PIPPIN.



Pl. 55.



Swinton del

K H Pease Lith Albany

1. RIDGE PIPPIN. 2. VANDEVIER.





1. 蓮花 (45%) 2. 蓮花 (45%) 3. 蓮花 (45%) 4. 蓮花 (45%) 5. 蓮花 (45%) 6. 蓮花 (45%) 7. 蓮花 (45%) 8. 蓮花 (45%) 9. 蓮花 (45%) 10. 蓮花 (45%) 11. 蓮花 (45%) 12. 蓮花 (45%) 13. 蓮花 (45%) 14. 蓮花 (45%) 15. 蓮花 (45%) 16. 蓮花 (45%) 17. 蓮花 (45%) 18. 蓮花 (45%) 19. 蓮花 (45%) 20. 蓮花 (45%) 21. 蓮花 (45%) 22. 蓮花 (45%) 23. 蓮花 (45%) 24. 蓮花 (45%) 25. 蓮花 (45%) 26. 蓮花 (45%) 27. 蓮花 (45%) 28. 蓮花 (45%) 29. 蓮花 (45%) 30. 蓮花 (45%) 31. 蓮花 (45%) 32. 蓮花 (45%) 33. 蓮花 (45%) 34. 蓮花 (45%) 35. 蓮花 (45%) 36. 蓮花 (45%) 37. 蓮花 (45%) 38. 蓮花 (45%) 39. 蓮花 (45%) 40. 蓮花 (45%) 41. 蓮花 (45%) 42. 蓮花 (45%) 43. 蓮花 (45%) 44. 蓮花 (45%) 45. 蓮花 (45%) 46. 蓮花 (45%) 47. 蓮花 (45%) 48. 蓮花 (45%) 49. 蓮花 (45%) 50. 蓮花 (45%) 51. 蓮花 (45%) 52. 蓮花 (45%) 53. 蓮花 (45%) 54. 蓮花 (45%) 55. 蓮花 (45%) 56. 蓮花 (45%) 57. 蓮花 (45%) 58. 蓮花 (45%) 59. 蓮花 (45%) 60. 蓮花 (45%) 61. 蓮花 (45%) 62. 蓮花 (45%) 63. 蓮花 (45%) 64. 蓮花 (45%) 65. 蓮花 (45%) 66. 蓮花 (45%) 67. 蓮花 (45%) 68. 蓮花 (45%) 69. 蓮花 (45%) 70. 蓮花 (45%) 71. 蓮花 (45%) 72. 蓮花 (45%) 73. 蓮花 (45%) 74. 蓮花 (45%) 75. 蓮花 (45%) 76. 蓮花 (45%) 77. 蓮花 (45%) 78. 蓮花 (45%) 79. 蓮花 (45%) 80. 蓮花 (45%) 81. 蓮花 (45%) 82. 蓮花 (45%) 83. 蓮花 (45%) 84. 蓮花 (45%) 85. 蓮花 (45%) 86. 蓮花 (45%) 87. 蓮花 (45%) 88. 蓮花 (45%) 89. 蓮花 (45%) 90. 蓮花 (45%) 91. 蓮花 (45%) 92. 蓮花 (45%) 93. 蓮花 (45%) 94. 蓮花 (45%) 95. 蓮花 (45%) 96. 蓮花 (45%) 97. 蓮花 (45%) 98. 蓮花 (45%) 99. 蓮花 (45%) 100. 蓮花 (45%)





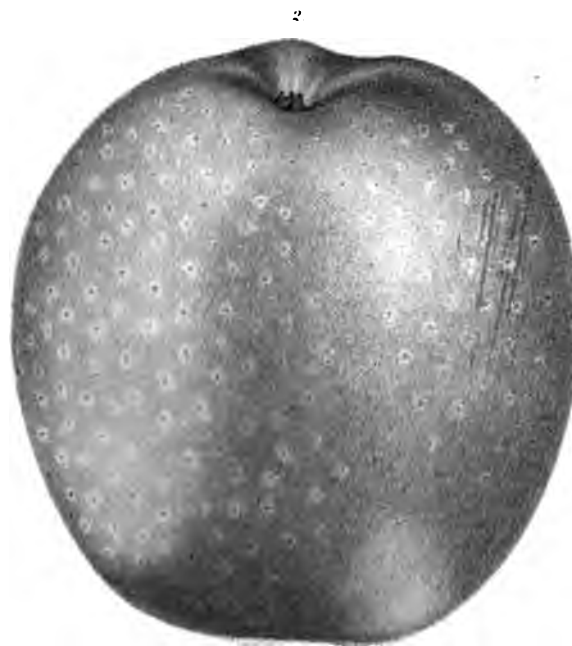


Winter Red.

Red Delicious.

1. WINTER RED, 2. RED DELICIOUS.



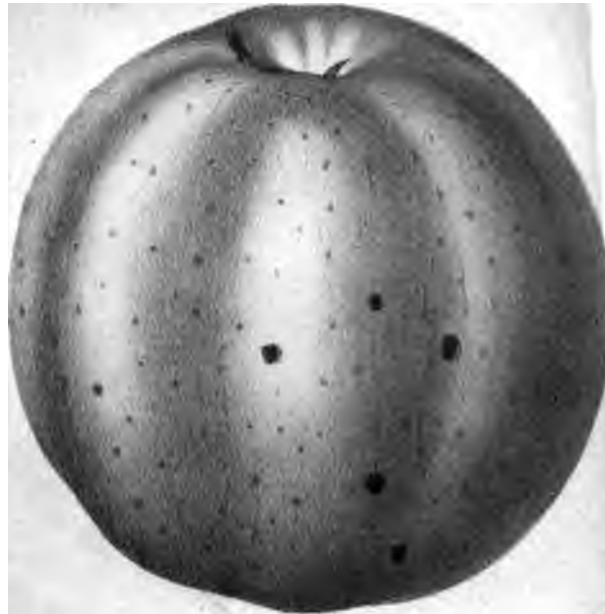


\* Swinton del.

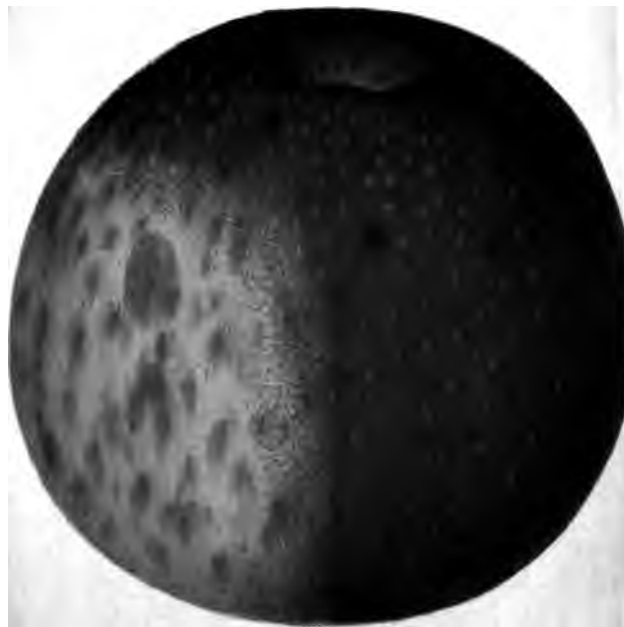
H. H. Pease Lith. Albany.

1. BLUE PEARMAIN. 2. WARREN PEPPY.





2



Swinton del.

R. H. Pease Lith. Albany

1. RIDGE PIPPIN. 2. VANDEVIER.



Pl. 56.



PLATE 56. 1. A dark, rounded, and somewhat flattened object, possibly a seed or fruit, with a small indentation at the top. 2. A lighter, more elongated, and rounded object, possibly a seed or fruit, with a small indentation at the top.





Pl. 57.



Winter 1911

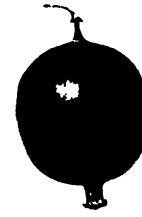
E. H. Chase and Son, Albany, N. Y.

1. MONMOUTH PIPIPIN. 2. RED RAMBO.









On Stone by Swinton

Lith of R. H. Pease, Albany.

31.

1. *Asplenium platyneuron* (L.) Oakes.  
2. *Asplenium platyneuron* (L.) Oakes.

3. *Asplenium platyneuron* (L.) Oakes.  
4. *Asplenium platyneuron* (L.) Oakes.



1

2

3

4

5



On Stone by F J Swinton

Lith of R H Pease, Albany.

NEW REDD ANTWERP RASPBERRY.





1

1

1



*PRUNELLA DOMESTICA* MILLER.



Pl. 64.



Painted by Swenson

Pl. 64. Albany

PLANT 64. 1840. 1840.





1



Pl. 66



On Stone by Swinton

at Peace Hill Albany.

1852-1853 1854-1855 1856-1857



Pl. 67.

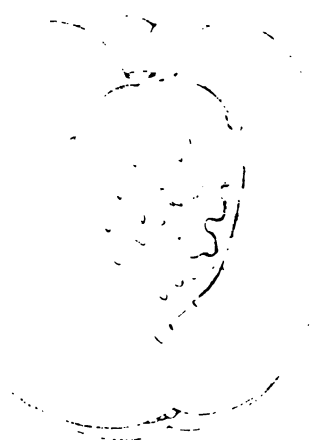


See Stone by Gaudin

See Stone by Albany

See Stone by Albany

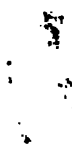




On Stone by C. H. Smith

On Stone by C. H. Smith

On Stone by C. H. Smith





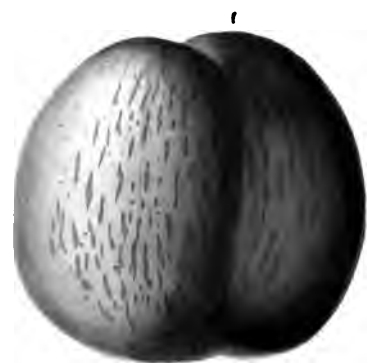
NOBLESSE.















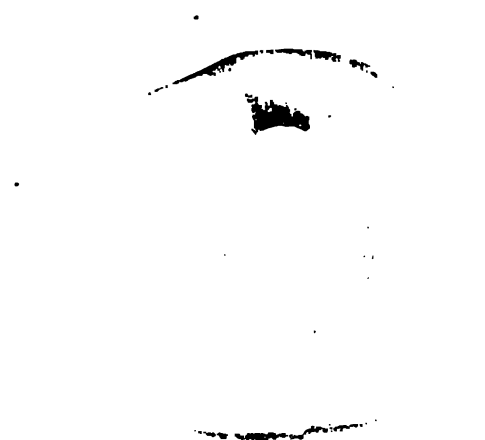




MORLISSE.



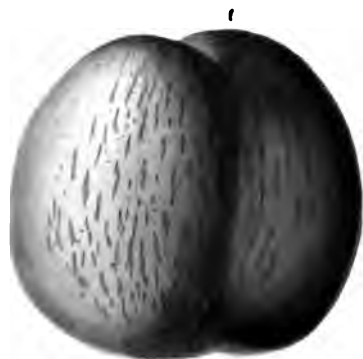




















Pl. 74.



2



Monroe, N. H.

J. H. Pease Lith. Albany

1. HORTONBARSTON MONIE SWOPE. 2. HORTONBARSTON MONIE SWOPE.



Pl. 75.



Wm. H. Pease Lith.

W. H. Pease Lith. Albany

PAUL & CO. NEW YORK. 2. 611 C. 611.



Pl. 76.



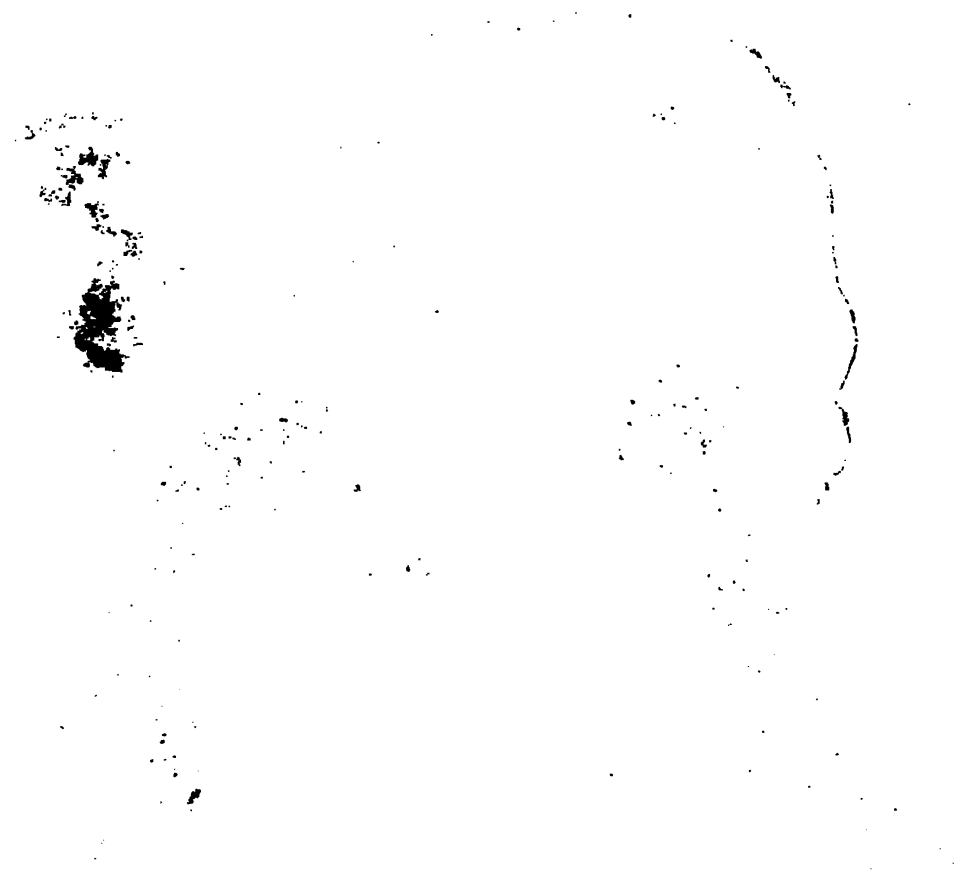
1. BELMONT OR APPLE.

2. BELMONT OR APPLE.

1. BELMONT OR APPLE. 2. BELMONT.











2.



Pl. 77. 2.

N. B. Pease Lith. Albany

THE UNIVERSITY OF THE STATE OF NEW YORK





Figure 7. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.



Pl. 79.



E. Cummins Del.

A. S. Pease Lith. Albany.

THE NEW YORK STATE AGRICULTURAL EXPERIMENT STATION.



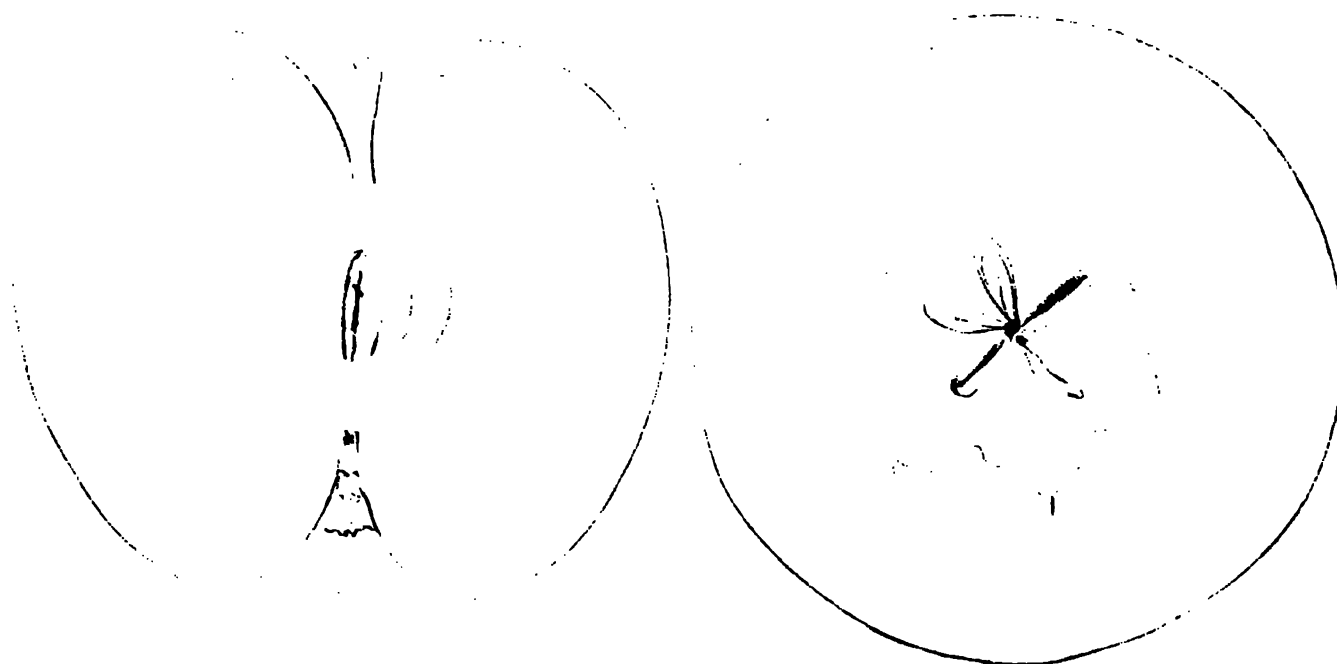


Fig. 1. 100x

Fig. 2. 100x Albany

Fig. 3. 100x Albany













1

2

3







Stanford U  
Stanfo

Return this b

